



# **CALL FOR DATA ON BACKGROUND CONCENTRATIONS OF TRACE ELEMENTS**

Joana Firmino,  
Federico Morreale,  
Jordi Tarres Call

# THE MANDATE OF THE EUROPEAN COMMISSION

- EFSA-Q-2024-00482
- To deliver a scientific opinion on the safety for the environment of the current maximum authorised levels of the following trace elements: cobalt, copper, iodine, manganese, molybdenum, selenium and zinc, on the basis of the available and/or new data.
- The opinion should take in consideration the target species for which the trace elements are currently authorised.



# PHASE I ENVIRONMENTAL RISK ASSESSMENT (ERA)

- Decision tree of Phase I of the environmental risk assessment Guidance document (GD) of 2019: **Evidence should be provided showing that...** (comparable concentrations of the feed additive can be expected in other plant(s) and/or that)... **the use of the feed additive will not significantly alter the concentration of the additive in the receiving environmental compartments of concern.**
- **The natural background concentration of a trace element in a given environmental compartment is derived from the distribution of its measured concentrations, taking the 10% of the 90<sup>th</sup> percentile,** following a similar approach as in the Water Framework Directive (Guidance document No 38). This is not explained in the ERA GD of 2019 but is clarified in the minutes of the WG meeting of 12 December 2022.
- The distribution of measured concentrations in the different compartments are taken from the **FOREGS European geochemical atlas** 2005.



# THE FOREGS EUROPEAN GEOCHEMICAL ATLAS (2005)

- Nearly 1000 samples of each trace element collected from whole Europe, for each different compartment
- Collected from pristine areas, not impacted by mining waters or agricultural activities
- Analysed by the same analytical methods
- Results in a dry matter basis
- Statistics of the distribution of measured concentrations given
- No data on marine sediment for any of the 7 elements
- No data on freshwater sediment for I and Se
- No data on soil for Se
- A call for data was launched that will last until 23rd January 2025



# THE CALL FOR DATA

- **Specific Objective 1:** concentrations of trace elements (cobalt, copper, iodine, manganese, molybdenum, selenium or zinc) in European **soil**.
- **Specific Objective 2:** concentrations of the abovementioned trace elements in freshwater in European **freshwater bodies** (e.g., streams, lakes, ponds, ditches...)
- **Specific Objective 3:** concentrations of the abovementioned trace elements in freshwater **sediment of European freshwater bodies**.
- **Specific Objective 4:** concentrations of the abovementioned trace elements in **marine sediment** in coasts of the countries specified above, including fjords and estuaries.



# MINIMUM DATASET NEEDED

- Measured concentrations of these elements (actual measurements), indicating the unit and if the results are on dry matter or on “as is” basis.
- Samples collected in the last 15 years (2009 onwards)
- Place of the sample collection (coordinates or nationality and municipality)
- Indicating if the sample originates from an area not affected by spot or diffuse sources of pollution (pristine area)
- Indicating if the data has been published (reference to the publication)
- Indicate the analytical method
- Indicate if total concentration of the trace element was measured, or a particular chemical species, e.g., total copper versus Cu(+I) or Cu (+II)



# VALUABLE METADATA FOR FRESH WATER AND SEDIMENT

- FRESHWATER:
  - water pH,
  - water hardness, (e.g., total hardness, mg CaCO<sub>3</sub>/L, or mmol/L, German degrees (dGH/ °dH)...)
  - dissolved organic carbon (mg/L)
- SEDIMENT (marine or freshwater):
  - porewater pH,
  - Texture: % of clay (<2µm), % of silt (2 – 63 µm), and % of sand (>63µm) ,
  - and content of organic matter (%)



# HOW TO SEND THE DATA

- Electronically via the tool Submission Builder “Portalino”
- In excel format
- EFSA has prepared a **Reporting tool on Trace Elements** that can be used on a voluntary basis.
- Avoid sending pdf documents containing the data





# HOW TO SEND THE DATA

[Home](#)

## Call for data for determination of natural background concentrations of trace elements (Co, Cu, I, Mn, Mo, Se or Zn) in the environment

Contents

Documents

Related topic

**Published:** 23 October 2024 **Deadline:** 23 January 2025 - 23:59 (CET) **Ongoing**

Share:   

EFSA-Q-number: EFSA-Q-2024-00482


Published: 23/10/2024

Deadline for submission of data: 23/01/2025

## Documents

 [Reporting tool on Trace Elements](#)

 [How to submit data on Trace Elements in Portalino](#)

 [Call for data for determination of natural background concentrations of trace elements \(Co, Cu, I, Mn, Mo, Se or Zn\) in the environment - background document](#)



# HOW TO SEND THE DATA

AutoSave Off reporting-tool-trace-elements.xlsx No Label • Saved to this PC Search FIRMINO Joana

File Home Insert Draw Page Layout Formulas Data Review View Automate Help Nuance PDF Enterprise Connect Table Design

Clipboard Font Alignment Number Styles Cells Editing Analysis Sensitivity Add-ins

C3

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
sampleId	recId	envComp	pristineLoc	sampleLocG	sampleLoc	sampleDate	traceEl	traceEl	specText	specCode	conc	unitText	unitCode	weightText	weightCo	methAnText	methAnC	LOD	LOQ	acclab	phSed	TextureSedC

readMe dataReported +

Accessibility: Investigate

A	B	C	D	E	F
1	Reporting Tool	Trace Elements			
2	Version Date	18/10/2024			
3					
4	Legend				
5		Mandatory data elements			
6		Optional data elements			
7		Dependent mandatory data elements			
8		Automatically filled data elements with codes from EFSA Catalogue, Not required data elements.			
9					
10	Glossary				
11	Field Label	Field Name	Description	Controlled terminology	Mandatory/Optional
12	sampleId	Sample Identifier	Sample identification according to the data provider. Automatically generated unique identifier by concatenation of the sample identifier and the speciation. Allows communication between data providers and EFSA regarding specific reported data.		Mandatory
13	recId	Record Identifier	Select the compartment in which the sample was collected.	MTX (FoodEx2 Matrix)	Mandatory
14	envComp	Environmental Compartment	Select "YES" or "NO", indicating if the area sampled was affected by point or diffuse sources of pollution.	YESNO	Mandatory
15	pristineLoc	Pristine Location	Report the geographical coordinates where the sample		

# HOW TO SEND THE DATA

- Electronically via the tool Submission Builder “Portalino”
- In excel format
- EFSA has prepared a Reporting tool on Trace Elements that can be used on a voluntary basis.
- Avoid sending pdf documents containing the data
- Confidentiality: EFSA must make public the information on which its scientific outputs are based. However (Articles 39-39e of the General Food Law 178/2002), confidential status may be awarded to information the disclosure of which might potentially harm the information owner to a significant degree.
- A non-confidential and a confidential version of the data would be needed





# INTRODUCTION TO PORTALINO

**Federico Morreale**

*Scientific coordinator – Team Advice*

# DATA SUBMISSION VIA PORTALINO

**Interested parties are required to use Portalino** to submit documents and datasets, including the corresponding confidentiality requests concerning this call for data.

The access to Portalino can be requested **on behalf of your organisation** or **as private citizen** by contacting the EFSA's Service Desk [servicedesk@efsa.europa.eu](mailto:servicedesk@efsa.europa.eu) providing the following details:

- **Scope of the submission:** Call for data on Trace Elements EFSA-Q-2024-00483
- **Personal details of the user requesting the access:**
  - First name and Last name, Corporate email (should be provided if contributing on behalf of your organisation), Private email (should be provided in case you are contributing on your personal capacity, as private citizen).
- **Organisation details, in case of access requested on behalf of an organisation:**
  - Organisation name, Organisation English name, if relevant Organisation Email

**Important:** the domain of the email address should be linked to your organisation, e.g. john.smith@orgname.com

- Phone number, Billing address (street, city, zip/postal code), Billing Country (the service is free of charges)

**Important:** please check if your organisation is already registered on Connect.EFSA, and if yes specify this in the communication to service desk. **If your organisation is not yet registered on Connect.EFSA, you are required to register and create an account.**



# DATA SUBMISSION VIA PORTALINO

## Useful guidance documents:

- [User guide on Portalino](#): describes the steps to request the access to this portal and provides general guidance on the submission process.
- [Connect.EFSA registration user manual](#): describes the registration process and provides information on the steps to follow. For the purpose of this call, interested parties **do not need to request a pre-submission activities profile**. Please follow the indications identifiable with a blue banner on the left side of the pdf.
- [EFSA's user guide on confidentiality](#): provides instructions on how to submit confidentiality requests using Portalino, see Section D, Chapter 3.

## How to contact EFSA in case of need:

- In case of any technical issues during the registration on Connect.EFSA or the submission of your contribution for this call please contact [servicedesk@efsa.europa.eu](mailto:servicedesk@efsa.europa.eu).
- If you have any question or doubt you can contact EFSA by using the [Ask a Question tool](#). We kindly suggest to put in the subject of the request a reference to this call.



# OVERVIEW SUBMISSIONS

## Overview Submissions

Search on ID, subject keyword, company name or question number



+ New submission

### ▼ Submission status

Search status



- ☐ Draft
- ☐ Submitted
- ☐ Rejected
- ☐ Withdrawn
- ☐ Request for Information

▼ Show All

### ▼ Submission date

Select date



Select date




Id	Subject	Submission date	Type	Status	Food sector area	Company name	
<a href="#">CR-2024-000067</a>	No subject present			Draft	Unavailable	Unavailable	
<a href="#">CR-2024-000138</a>	No subject present			Draft	Unavailable	Unavailable	
<a href="#">CR-2024-000145</a>	E.g. Call for data on Trace Elements EFSA-Q-2024-00483		CR	Draft	Feed Additives	Unavailable	
<a href="#">CR-2023-000413</a>	Test submission for User Guide	14/09/2023 - 10:51		Submitted	Feed Additives	ABC company Spa	



# GENERAL INFO

Submission: CR-2024-000145

DRAFT

 Print

 User Guide

## 1. General Info

2. Data owner


3. Submission Owner(s)

4. Contacts

5. Data Submission

## Step 1/5: General Info


\* = Mandatory field

How to use? 

Subject of the submission \*


E.g. Call for data on Trace Elements EFSA-Q-2024-00483

54 / 4000

How to use? 

Food Sector Area \*

Feed Additives

How to use? 

Submission Type \*

☒ Initial Datasets ☐ Additional Datasets

Next >

Save as draft

Cancel





# DATA OWNER

✓ 1. General Info

2. Data owner

3. Submission Owner(s)

4. Contacts

5. Data Submission

## Step 2/5: Data owner

\* = Mandatory field

How to use? ?

Company or organisation \*

Federico Business Operator

E-mail

Phone number

34776448761231

Street Address

Postal code

45895

City

Joliet

Country

Italy

Website

www.abccorp.com

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Cancel



# SUBMISSION OWNER

✓ 1. General Info

✓ 2. Data owner

3. Submission Owner(s)

4. Contacts

5. Data Submission

## Step 3/5: Submission Owner(s)

\* = Mandatory field

Submission Owners

How to use? ?



Portalino | Issue adding a new contributor



User: john.doe@efsa.europa.eu cannot be added as a Contributor as the user does not have sufficient access to the Portalino.

Please contact [ServiceDesk](#)

List of selected Owners

MORREALE Federico

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Save as draft

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# DATA SUBMISSION VIA PORTALINO

- ✓ 1. General Info
- ✓ 2. Data owner
- ✓ 3. Submission Owner(s)
- 4. Contacts**
- 5. Data Submission

## Step 4/5: Contacts

\* = Mandatory field

How to use? ?

Contact email

+ Add contact

Federico.MORREALE@efsa.europa.eu

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# DATA SUBMISSION VIA PORTALINO

- ✓ 1. General Info
- ✓ 2. Data owner
- ✓ 3. Submission Owner(s)
- ✓ 4. Contacts
- 5. Data Submission**

## Step 5/5: Data Submission

\* = Mandatory field

### Zip files

How to use? ?

Confidential version \*

+ Select

Public dissemination (Non-Confidential) version \*

+ Select

### Data Submission

How to use? ?

☐ Please tick the box if your submission does not contain any confidentiality request related to confidential business information or personal data ?

+ Add confidentiality request

< Previous

✓ Submit

Save as draft

Cancel





QUESTIONS?