## **CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE**

Faculty of Environmental Sciences

## Evaluation of the Final Thesis by Opponent

Plant adaptations to contamination with metals and metalloids

Name of the student Ermengol Ferrer Bustins	
Thesis supervisor Ing. Zuzana Michálková, Ph.D.	
Department Department of Environmental Geoscience	
Opponent Ing. Jindřich Černý, Ph.D.	
Theme of the thesis and its significance	1 2 3 4
Formulation of objectives	1 2 3 4
Choice of appropriate methods and methodology used	1 2 3 4
Work with data and information	1 2 3 4
Overall approach and work with data and information	
Theoretical background of an author	1 2 3 4
The structure of paragraphs and chapters	1 2 3 4
Work with scientific literature (quotations, norms)	1 2 3 4
Skill level of language used	1 2 3 4
Clarity and professionalism of expression in the work	1 2 3 4
Formal presentation of the work, the overall impression	1 2 3 4
Fulfillment of objectives	1 2 3 4
Formulation of conclusions	1 2 3 4
Professional contribution of the work and its practical usage	1 2 3 4
Summary and key-words comply with the content of the thesis	1 2 3 4
Evaluation of the work by grade (1, 2, 3, 4)	1

Evaluation: 1 = the best

Date 05/16/2018

Thesis Title

Signature of Opponent

## Other comments or suggestions:

The bachelor thesis "Plant adaptations to contamination with metals and metalloids" is elaborated in the range of 33 pages (without a literature list) and formally meets the requirements for bachelor thesis.

Objectives are formulated briefly and accurately. Since this is experimental work, it would be appropriate to set the hypotheses. Nevertheless, for bachelor thesis they are not required.

Review of literature consists of chapters that are related to the subject matter and explain it well. The text is written in a comprehensible form, the chapters are logically structured. The author works especially with the scientific literature quite well.

Material and Methods are written in detail and correspond to the objectives and scope of work of the experiment. Results are processed in a clear manner, but interpretation of results is brief and included only the observed values without description of the interrelationship. However, data from experiments are appropriately explained in the Discussion. Citation standards are respected throughout the bachelor thesis.

## Questions for thesis defence:

From what / how was made the biochar used in the experimental part of the thesis?

Which biochar properties can be affected by way of its production?

What was the cause of the longest root elongations in all cases of filter paper conditions, as you describe on page 29?

The use of nanoscale zero-valent iron (nZVI) to remediate polluted sites has gained increasing attention in research area. Are there examples (studies) of its practical use in remediation also published?

Date 05/16/2018

Signature of Opponent