SOIL THIN SECTIONS PREPARATION - IUSS Commission 1.1 Questionnaire for manufacturers

8 risposte

Pubblica i dati di analisi

Manufacturer (institution/company/laboratory)

8 risposte

Mineralogy & Petrology research unit (Dept. of Geology), Ghent University

University of Stirling

Dept. of Earth Sciences, Brock University

me

PACEA Transfert Sediments & Materials (UMR5199 PACEA Univ. Bordeaux)

CRISP, Interdepartmental Research Centre on the "Earth Critical Zone" for supporting the Landscape and Agroenvironment management - University of Naples Federico II

CENIEH

Vancouver Petrographics Ltd

Country (full address – optional)

8 risposte

Belgium (Krijgslaan 281/S8, 9000 Gent)

UK

Dept. of Earth Sciences, 1812 Sir Isaac Brock Way, St. Catharines, ON L2S 3A1 Canada

University of Leicester, Leicester, UK

France

Via Università 100 - 80055 Portici, Naples - ITALY

Burgos, Spain

8080 Glover Rd, Langley City, BC V1M 3S3, CANADA

Contact person (name, e-mail)

8 risposte

Prof. Dr. Johan DE GRAVE, johan.degrave@ugent.be

George Macleod, g.w.macleod@stir.ac.uk

Prof. John Menzies, jmenzies@brocku.ca
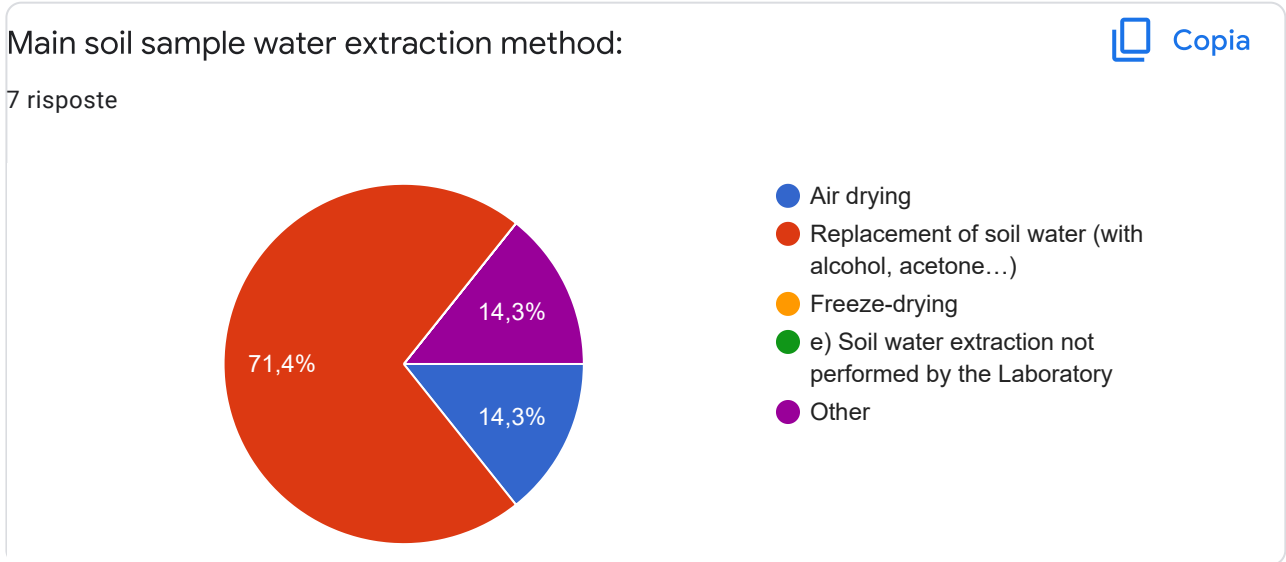
alb55@le.ac.uk

Pauline Dugas (pauline.dugas@adera.fr) / Alain Queffelec (alain.queffelec@u-bordeaux.fr)

Fabio Terribile, fabio.terribile@unina.it

Carlos Saiz; carlos.saiz@cenieh.es
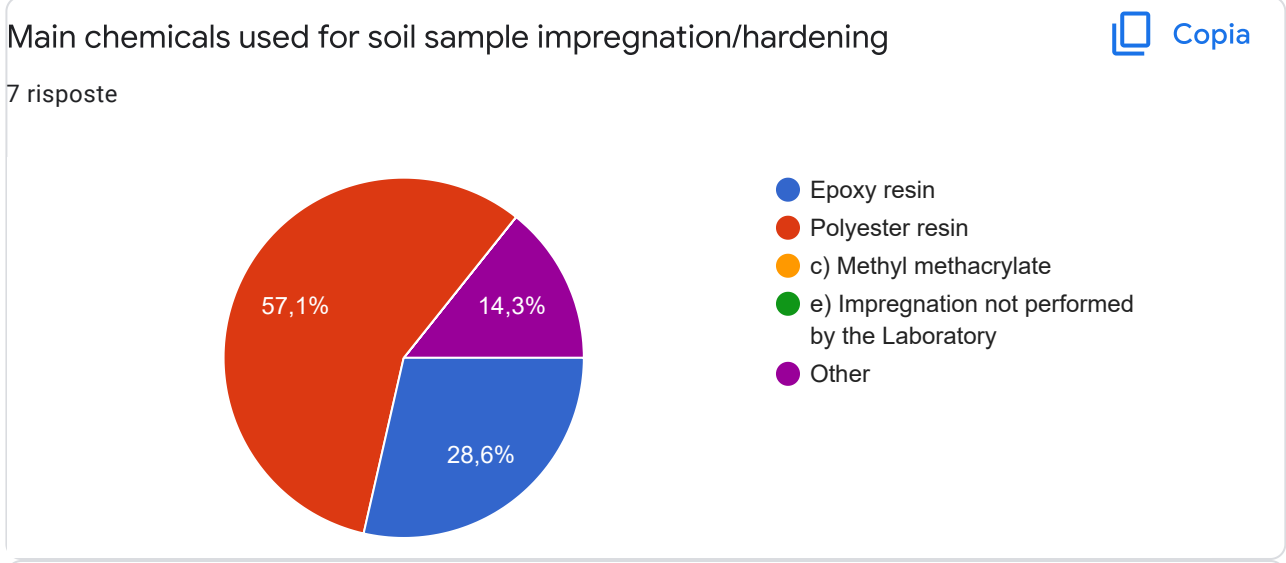
vanpetro@vanpetro.com

Main soil sample water extraction method:

Copia

7 risposte

- ● Air drying
- ● Replacement of soil water (with alcohol, acetone…)
- ● Freeze-drying
- ● e) Soil water extraction not performed by the Laboratory
- ● Other

71,4%
14,3%
14,3%

In case you have selected "other" describe here the method

3 risposte

and replacement by acetone

In Oven, at 30-35 Celsius degrees

information on website

Main chemicals used for soil sample impregnation/hardening

Copia

7 risposte

- ● Epoxy resin
- ● Polyester resin
- ● c) Methyl methacrylate
- ● e) Impregnation not performed by the Laboratory
- ● Other

57,1%
14,3%
28,6%

In case you ve selected "other" describe here the type of impregnation
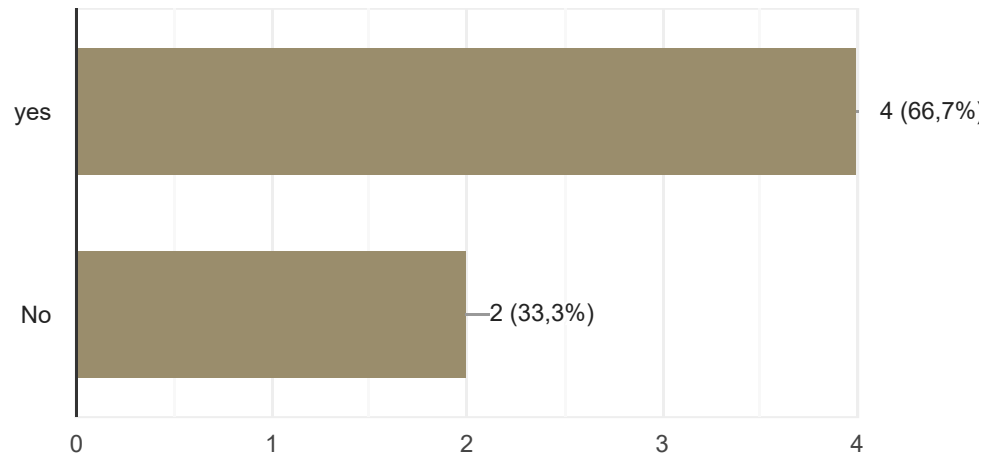
2 risposte

I use both several types of epoxy and several types of polyester, I make thin sections of a very wide range of materials and use different resins for different things

information on website

Possibility of adding a fluorescent dye to the resin

6 risposte

Copia

If you have selected yes, please let us know which dye is/are used

5 risposte

several options

Depends on request

I rarely get asked to use a dye, but if I do I use Keystone Blue. More often than dying the resin, if they want fluorescence I just use a resin that naturally fluoresces under a particular blue light wavelength fluorescence cube. That way the whole section isn't blue and they can use the same section for multiple analyses.

UVITEX FP

information on website

Possible size(s) of impregnated samples after cutting (area, cm x cm):

8 risposte

28x48; 60x90; 90x120

7.5 x 5.5

7cm X 5cm

Range of impregnated sample sizes from 2.5 cm diameter up to 20 x 20 x 10 cm (LxWxH). Range of glass slide sizes from 0.46 x 0.26 cm up to 10 x 7.5 cm

13 x 6

10x5

68x140 and 60x90

information on website

Recommended size(s) of the boxes used for soil sampling (volume, cm x cm x cm)

8 risposte

several options

We can provide Kubiena boxes (7..5 x 5.5 x 4 cm) but are also able to handle larger non-standard samples

10cm X 8cm

I make my own boxes out of sheet metal I buy. Then I make the size of the boxes to suit the sampler's/sediment's needs. The last boxes I made were 13 x 8 x 6 (LxWxH) cm.

15 x 10 x 5

10x5x3.5

It depens on de sample. Kubiena box is a good option

information on website

Possible final size(s) of thin sections after mounting the polished sample onto the glass slide (area, cm x cm):

7 risposte

28x48; 60x90; 90x120

7cm X 5cm but can make larger

Range of sizes from the smallest thin section sample area size (1 x 1 cm) up to the largest thin section sample area size (9.5 x 7 cm). Range of glass slide sizes from the smallest glass slide size (0.46 cm x 0.26 cm) up to the largest glass slide size (10 x 7.5 cm). On request I make glass slides into a smaller or different shape to suit particular researcher's needs.
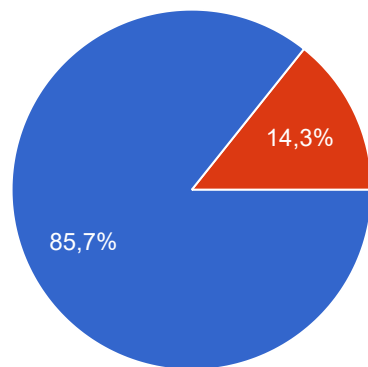
13 x 6

10x5

I do not understand exactly the question, sorry.

information on website

Final thickness of the thin section after cutting and trimming: ⧉ Copia

7 risposte

- 30 microns
- Other
- Trimming to the required thickness not performed by the Laboratory

14,3%

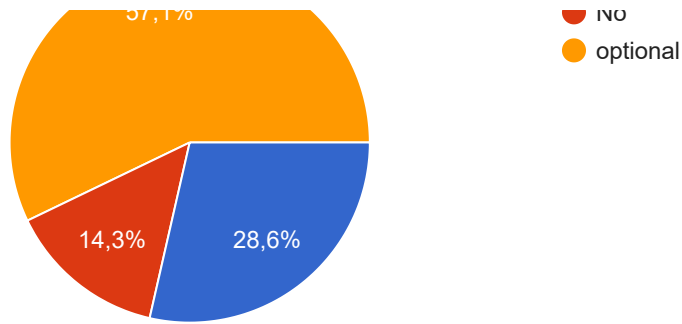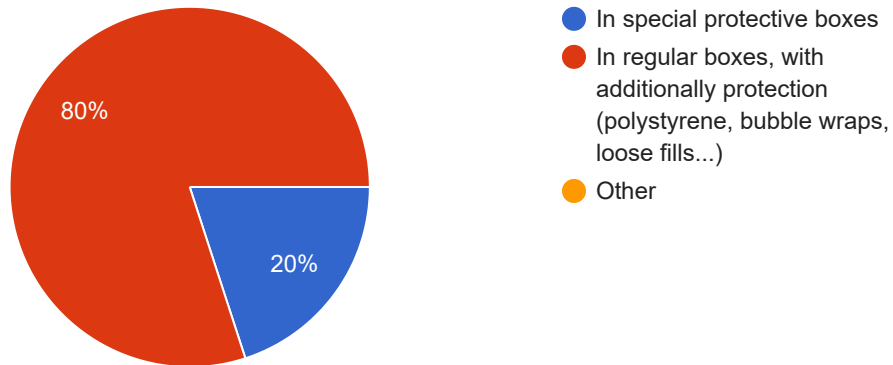85,7%

Covering the sample with the glass slide   ⧉ Copia

7 risposte

- Yes
- No

57,1%

No
optional

Thin sections delivery to the customer

Copia

5 risposte

- In special protective boxes
- In regular boxes, with additionally protection (polystyrene, bubble wraps, loose fills...)
- Other

General pricing information (optional):

5 risposte

contact (e-mail) contact-person

https://brocku.ca/mathematics-science/earth-sciences/wp-content/uploads/sites/106/Web-petrographic-lab-Jan-2015.pdf

Pricing here: https://mycore.core-cloud.net/index.php/s/Gkguz0WxHuIpObd

It depends on the size of the sample, of resin volume used....

information on website

Google Moduli