

# Decommissioning Plan of VVR-S Research Reactor at Magurele –Bucharest- environmental aspects



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# Environmental Plan Characterization

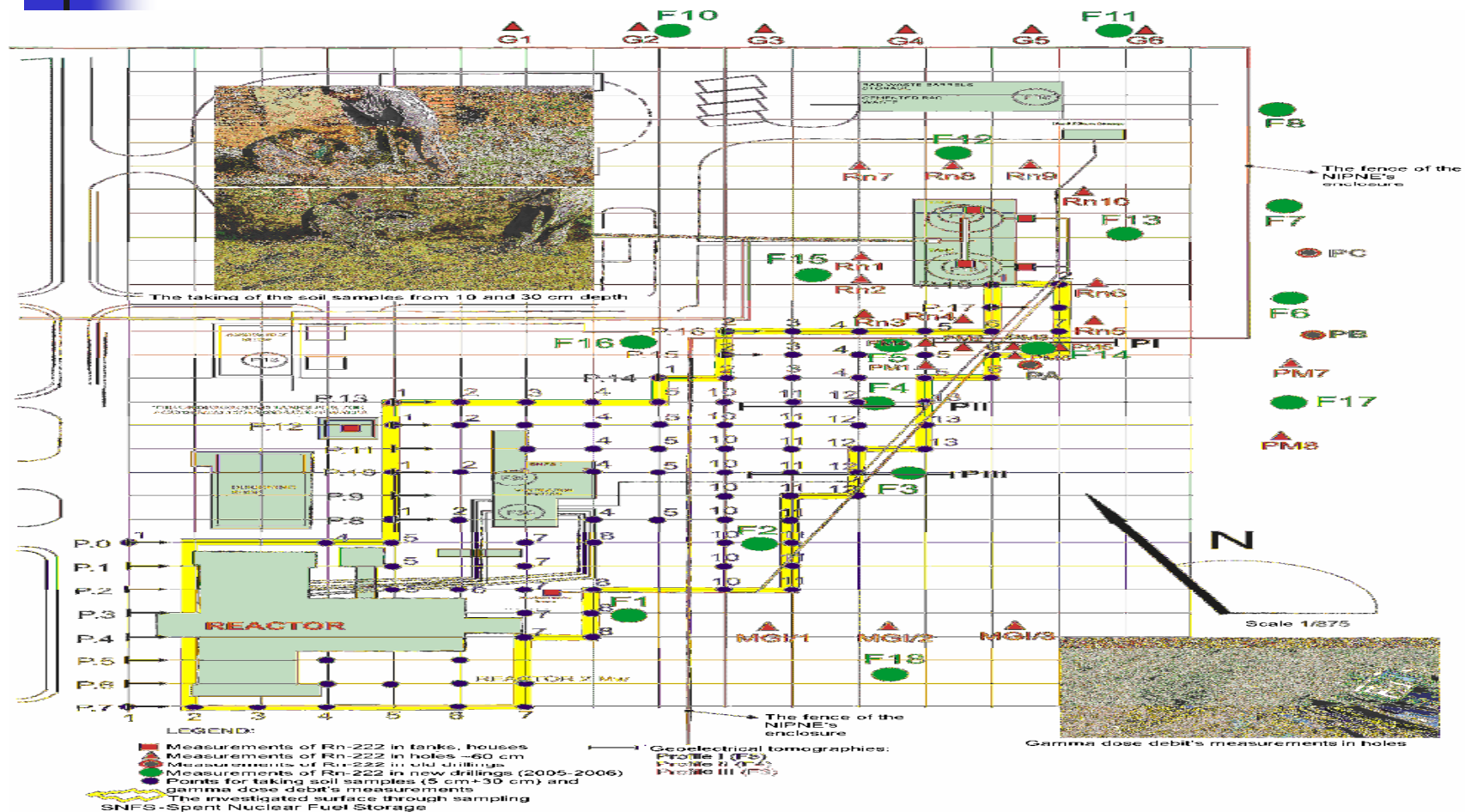


Fig. 1 The plan with the investigations done in soil and air

# Vertical Soil Profile

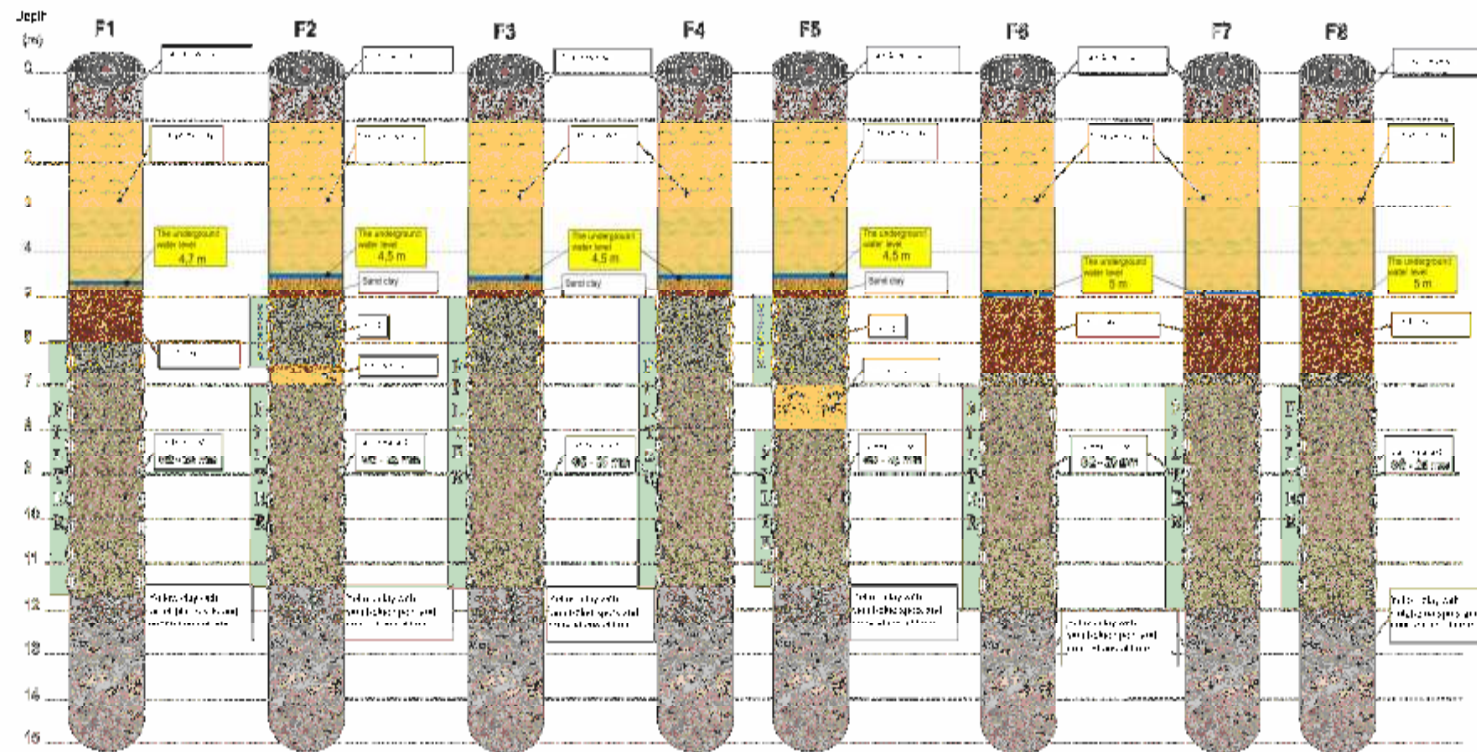


Fig 4 The lithology of the seasonal drillings done in August 2005.

# Environmental factors characterization

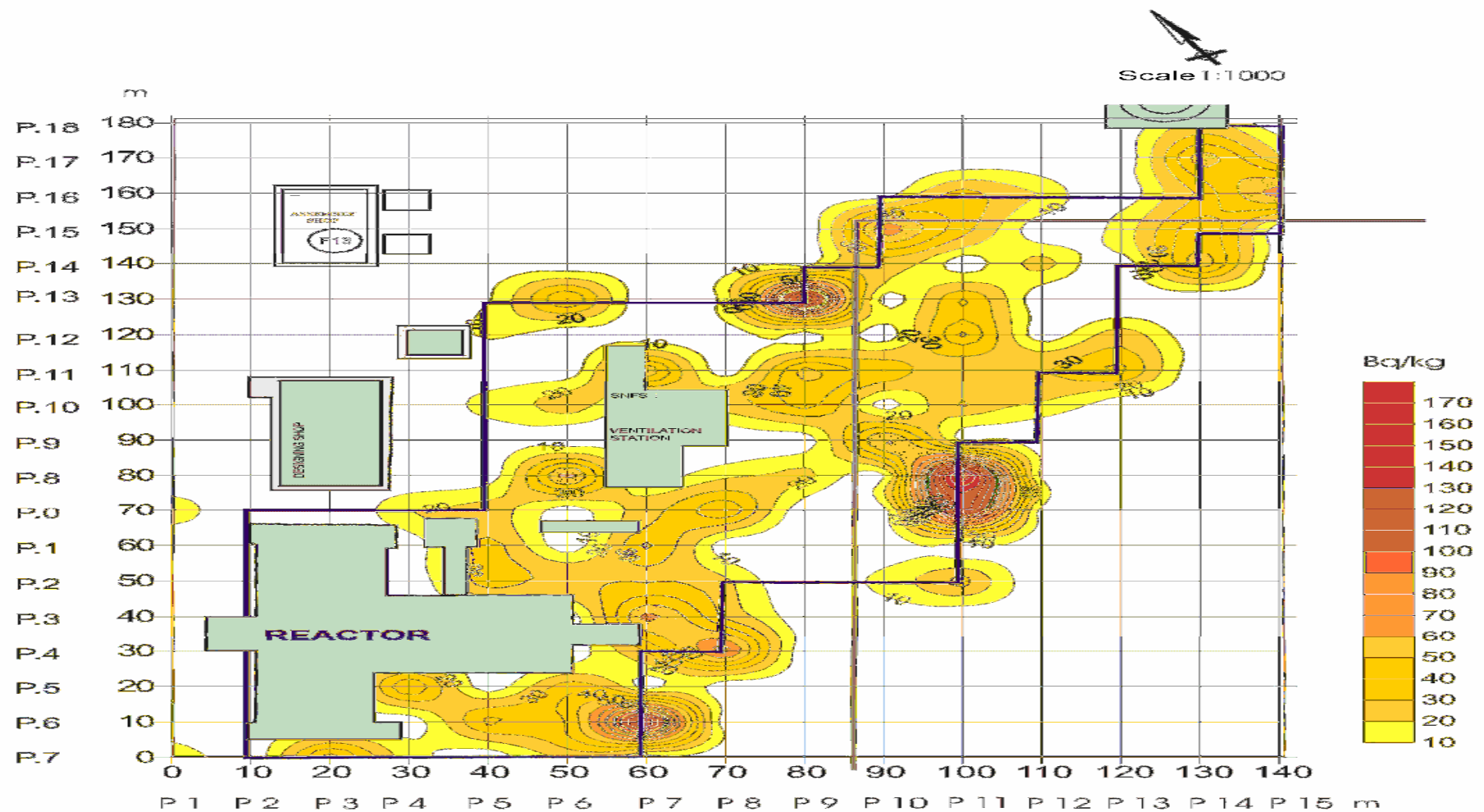


Fig.2. The distribution of Bi-214 in soil samples taken from 10 cm depth.

# Environmental factors characterization

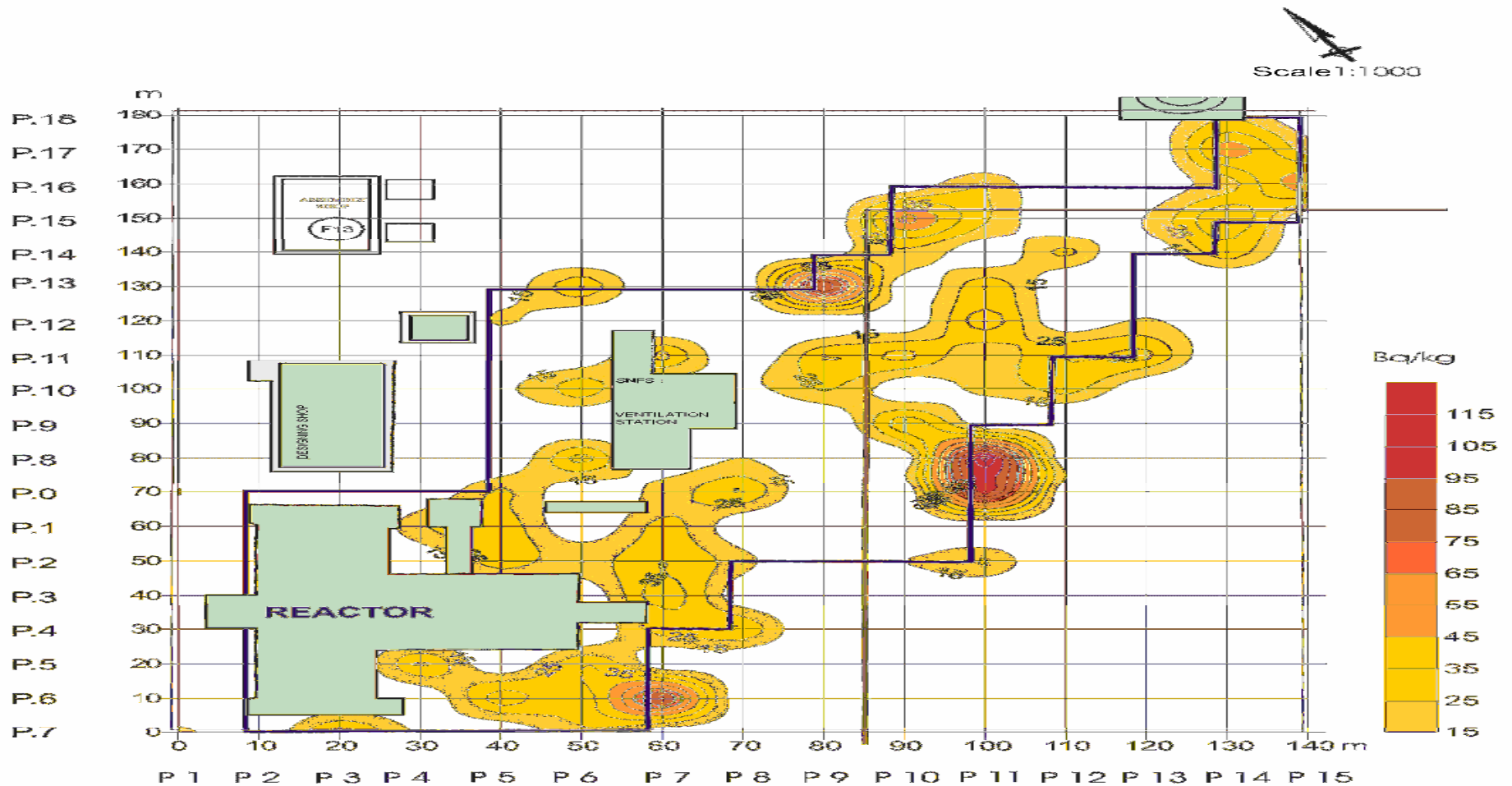
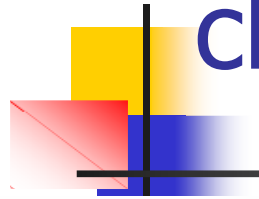


Fig.3. The distribution of Pb-214 in soil samples taken from 10 cm depth.



# Environmental factors characterization

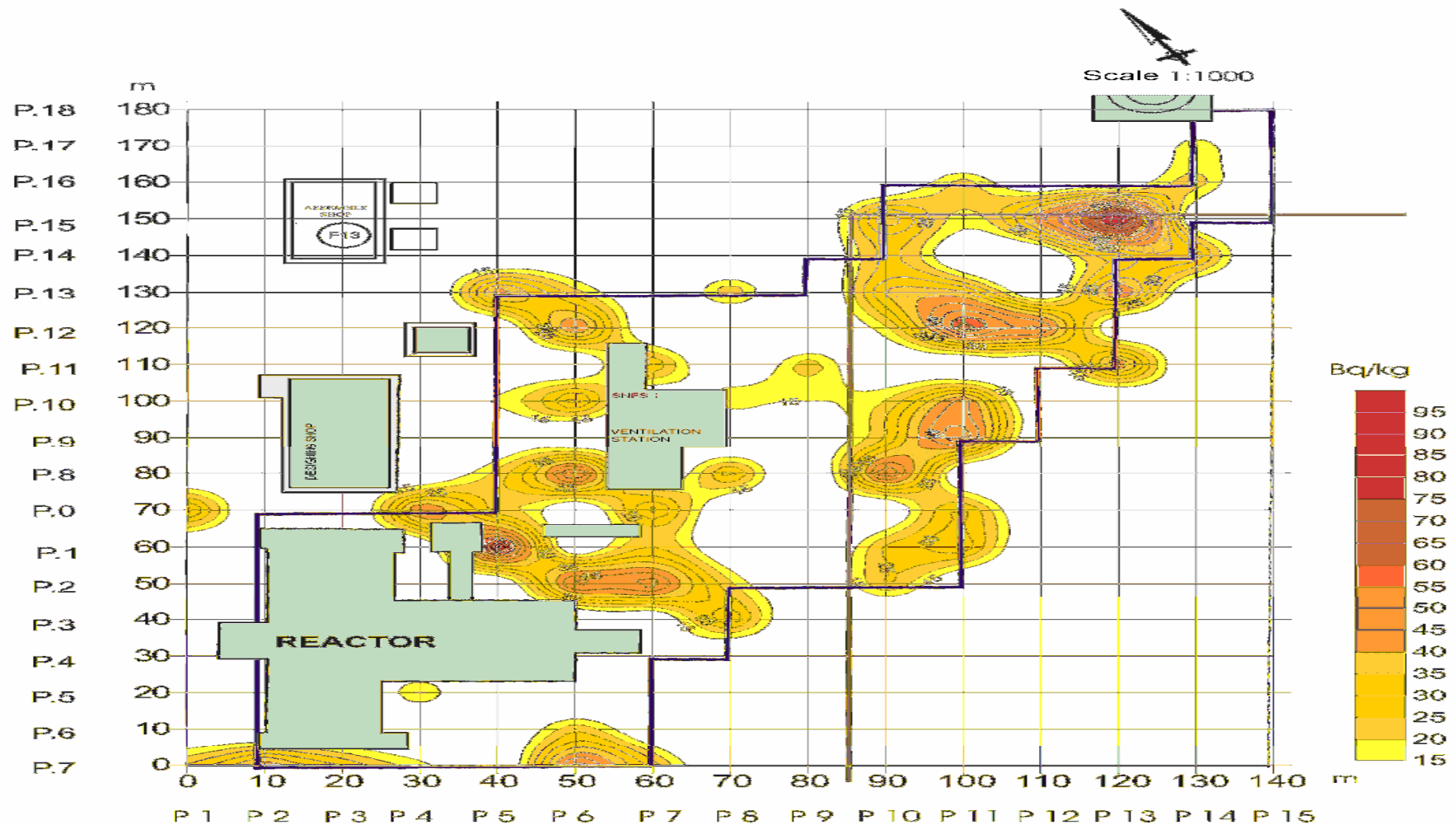


Fig. 4. The distribution of Bi-214 in soil samples taken from 30cm depth.

# Environmental factors characterization

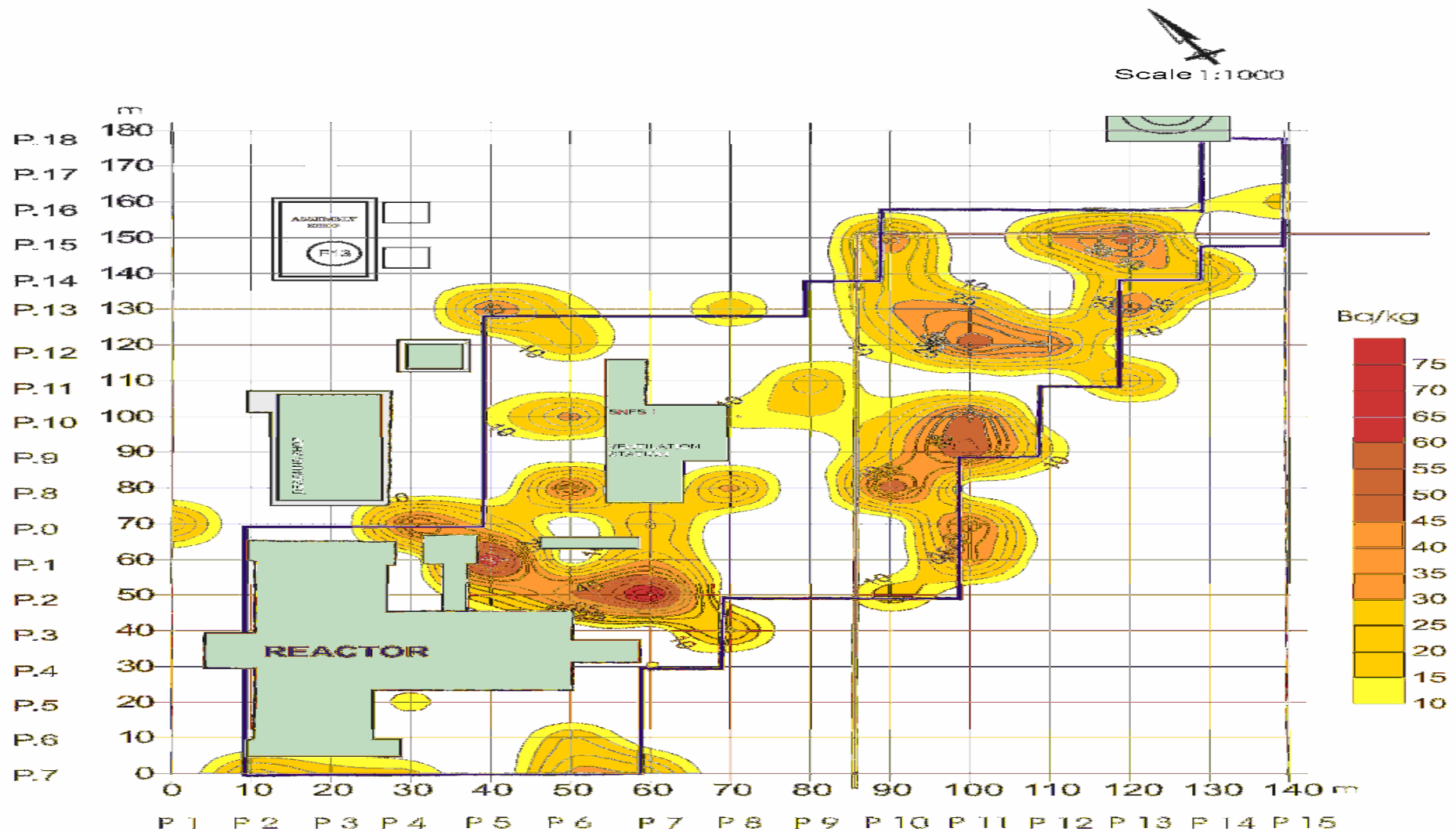


Fig. 5. The distribution of Pb-214 in soil samples taken from 30cm depth.

# Environmental factors characterization

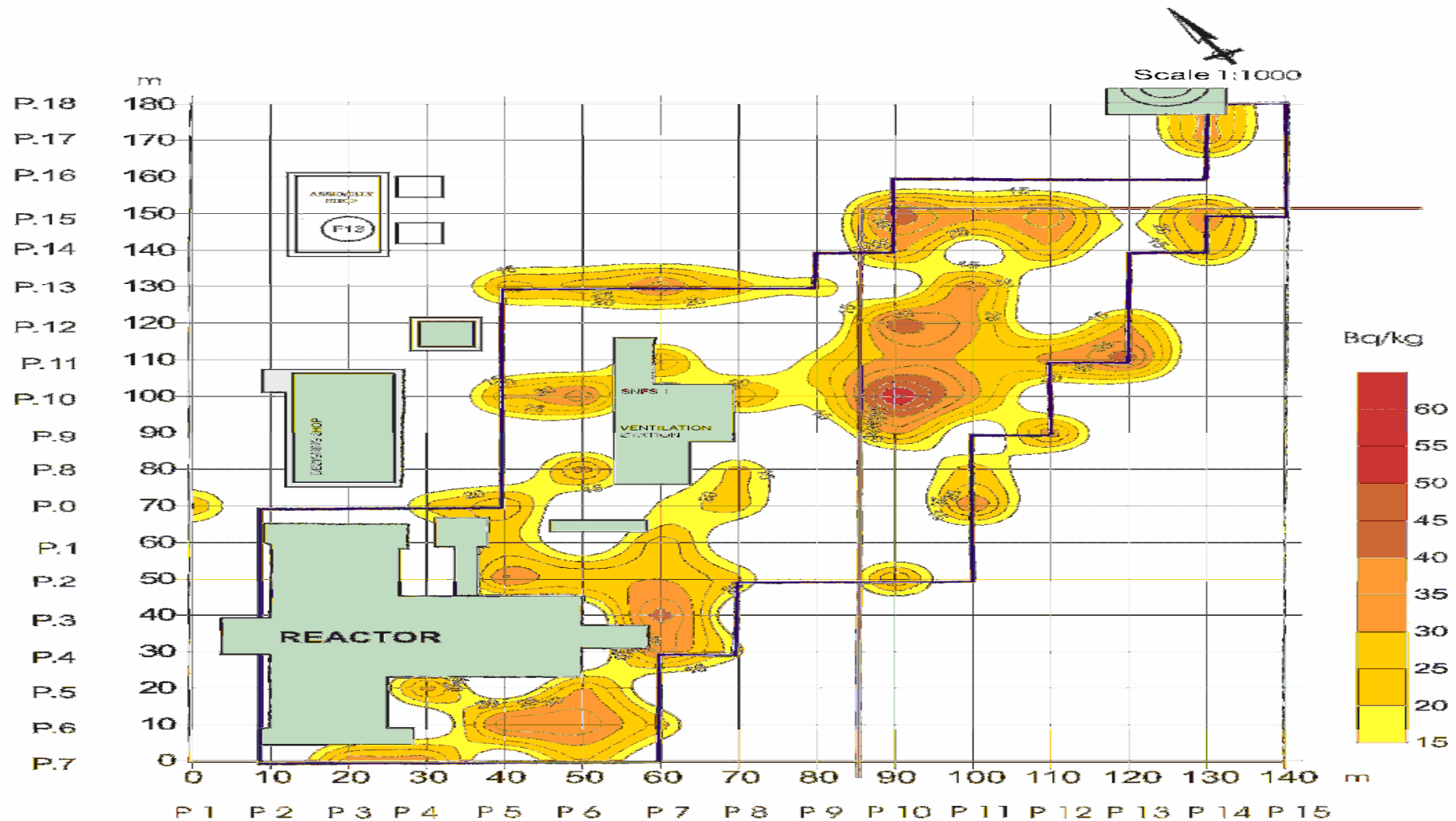


Fig. 6. The distribution of Ac-228 in soil samples taken from 10 cm depth.



# Environmental factors

## ■ characterization

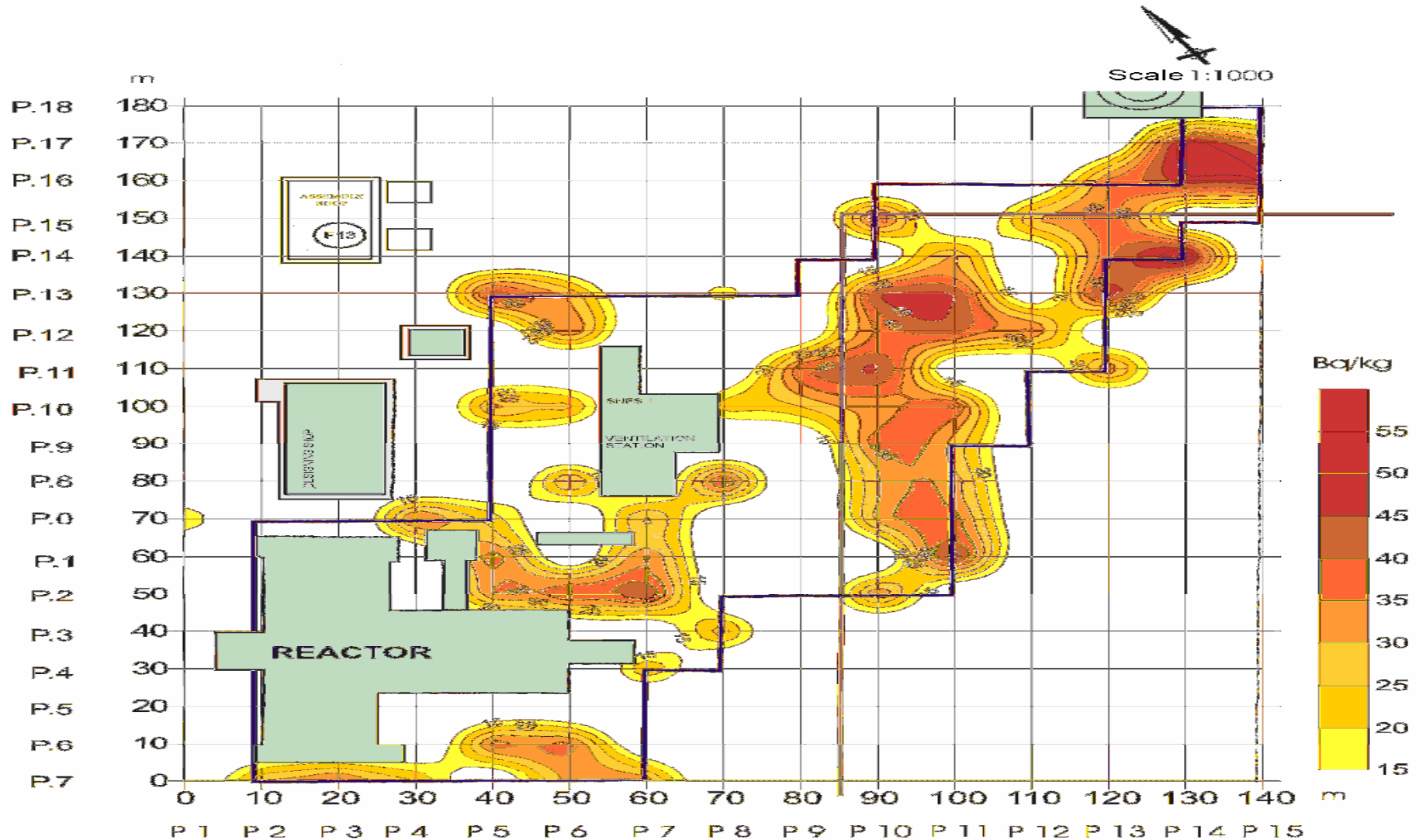


Fig. 7. The distribution of Ac-228 in soil samples taken from 30 cm depth.

# Environmental factors characterization

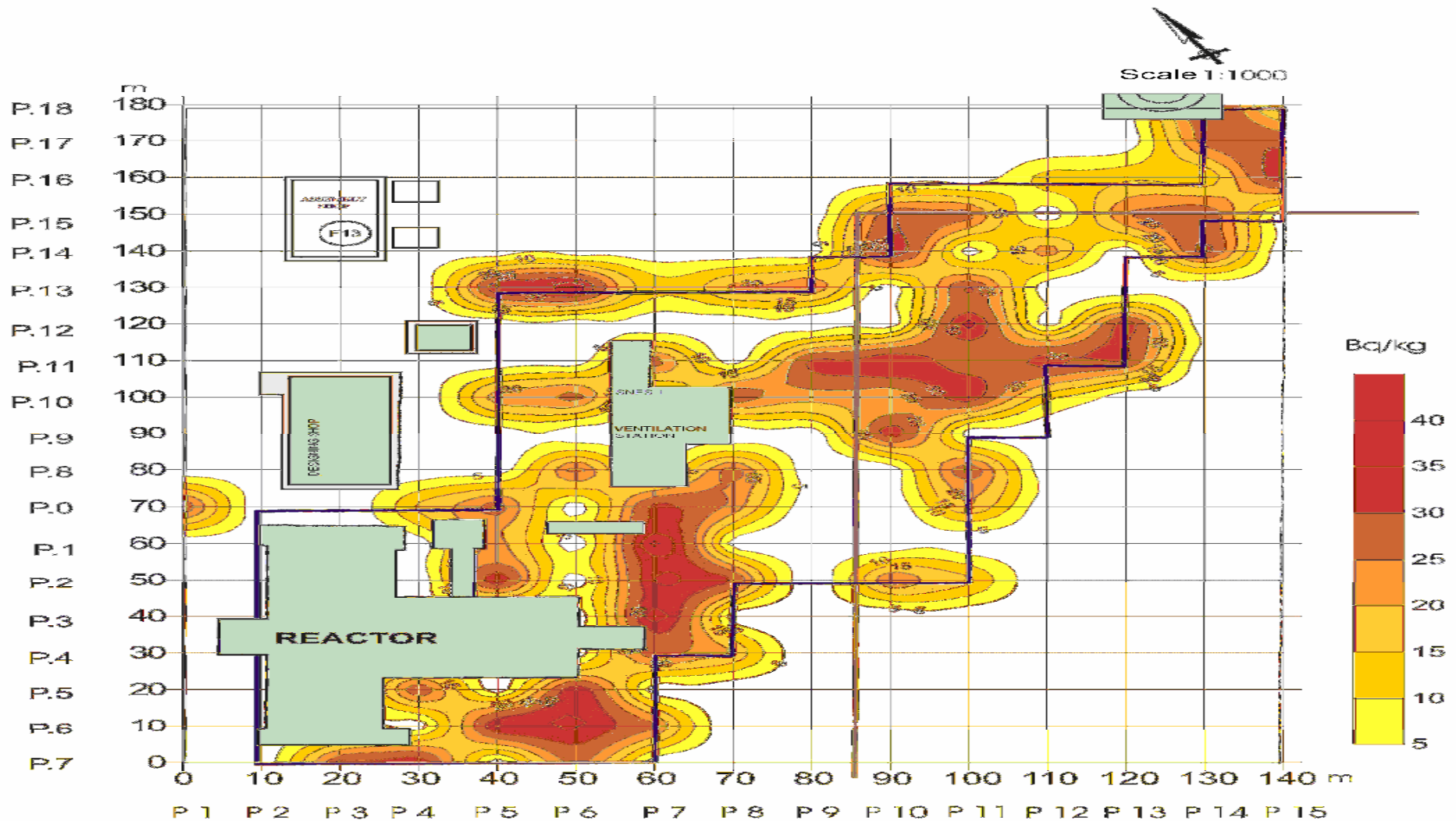


Fig.8.The distribution of Tl-208 in soil samples taken from 10 cm depth.

# Environmental factors

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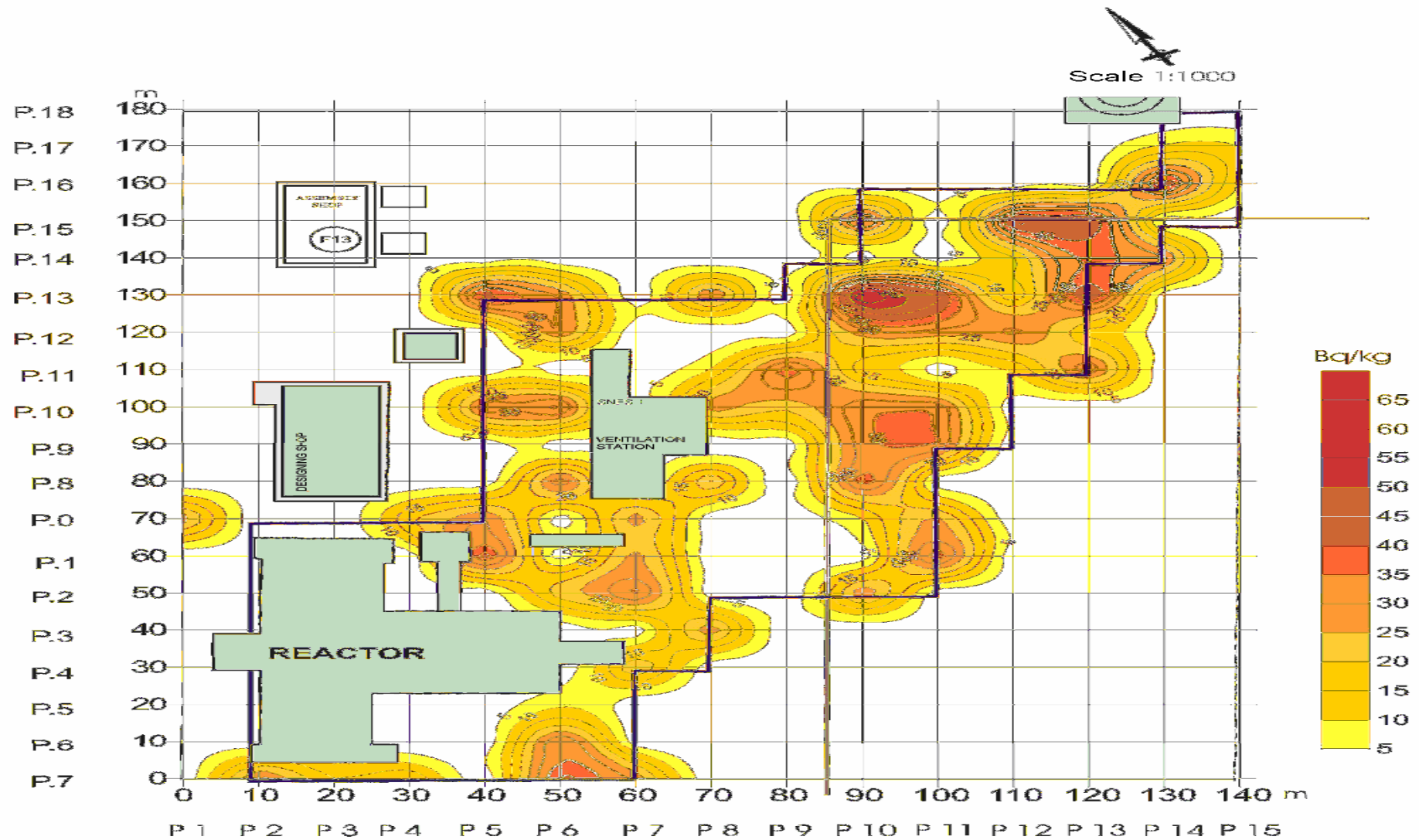


Fig. 9. The distribution of TI-208 in soil samples taken from 30 cm depth.

# Environmental factors characterization

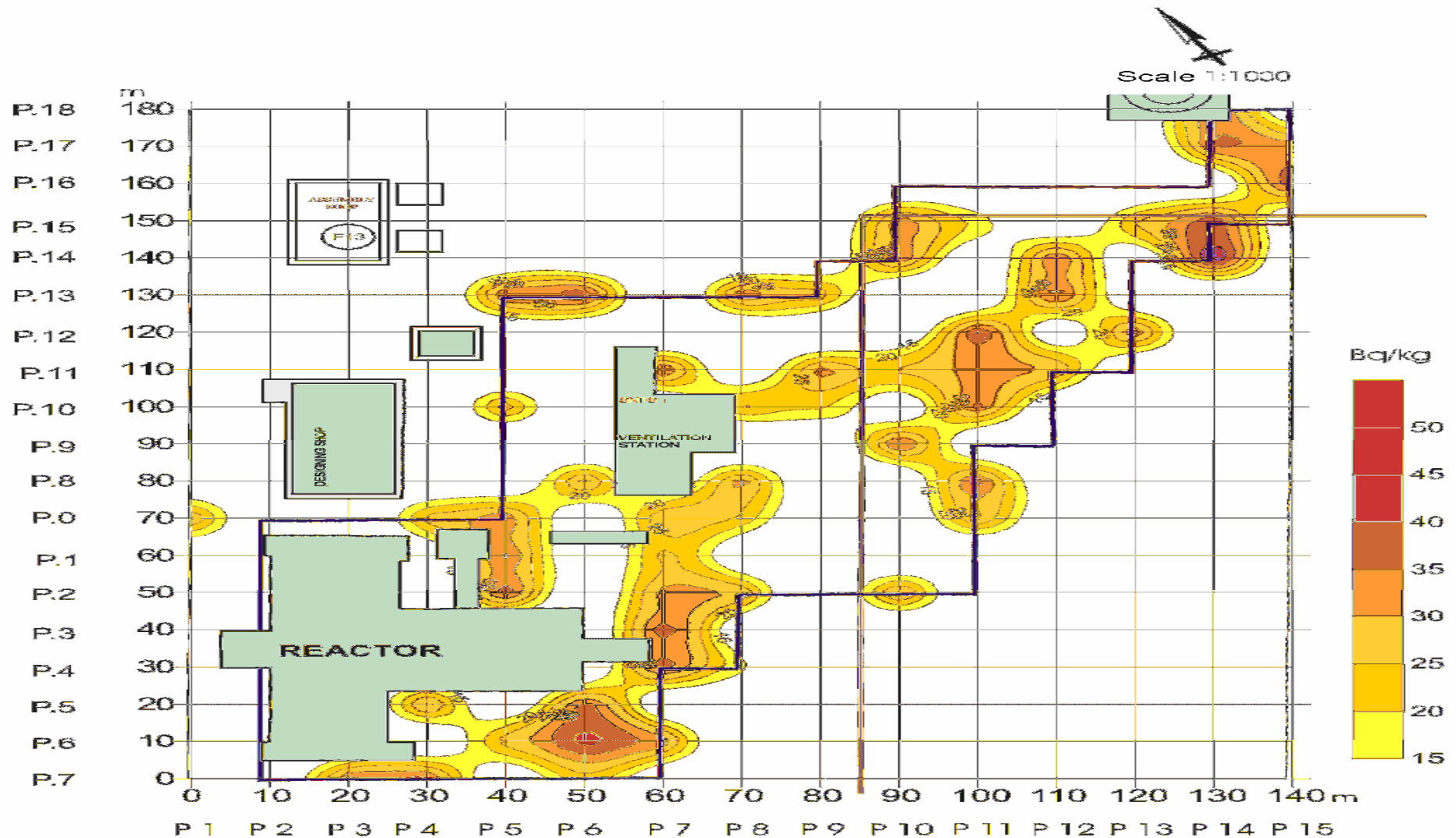


Fig.10. The distribution of Pb-212 in soil samples taken from 10 cm depth.

# Environmental factors characterization

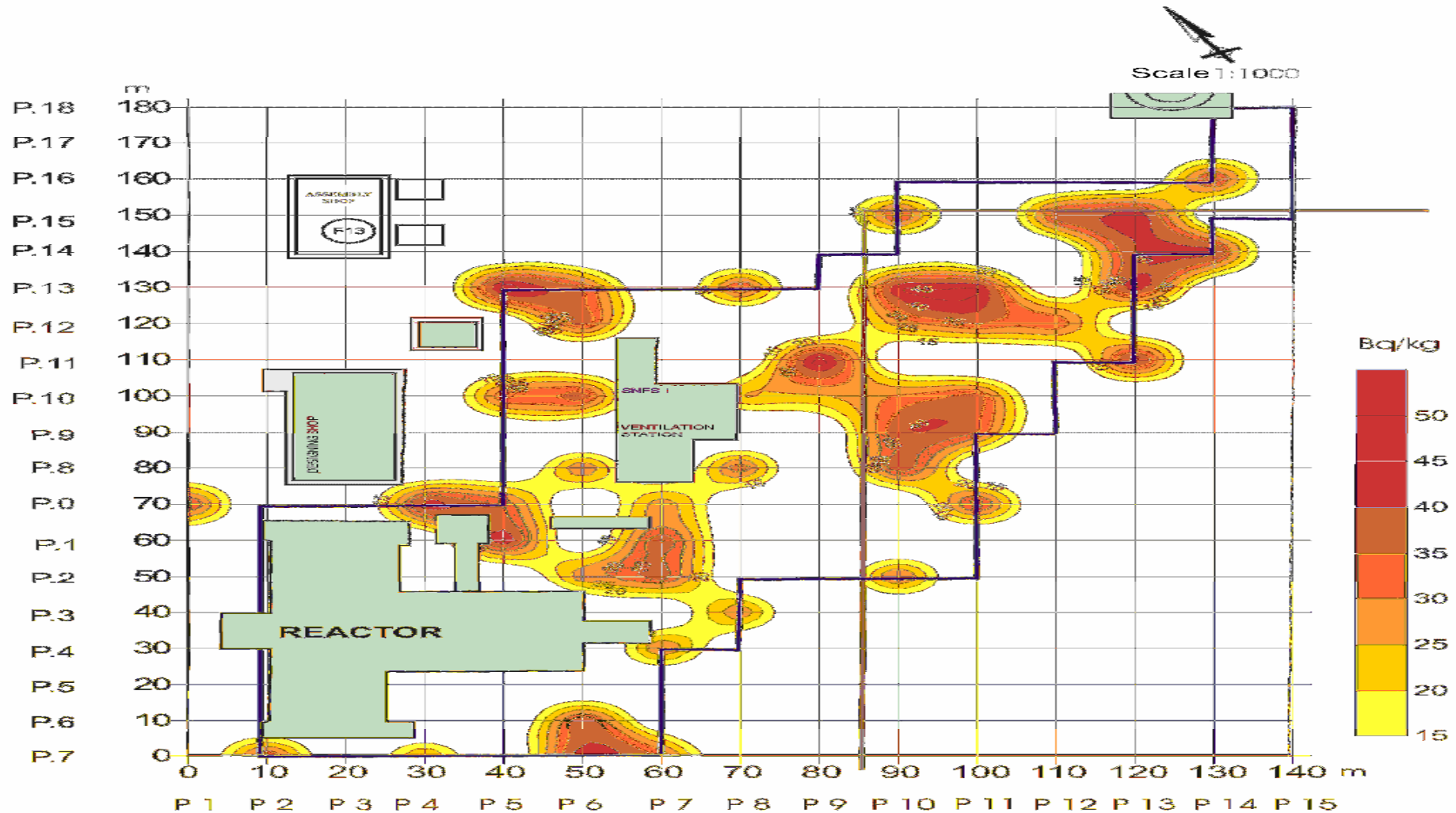


Fig. 11. The distribution of Pb-212 in soil samples taken from 30 cm depth.



# Environmental factors characterization

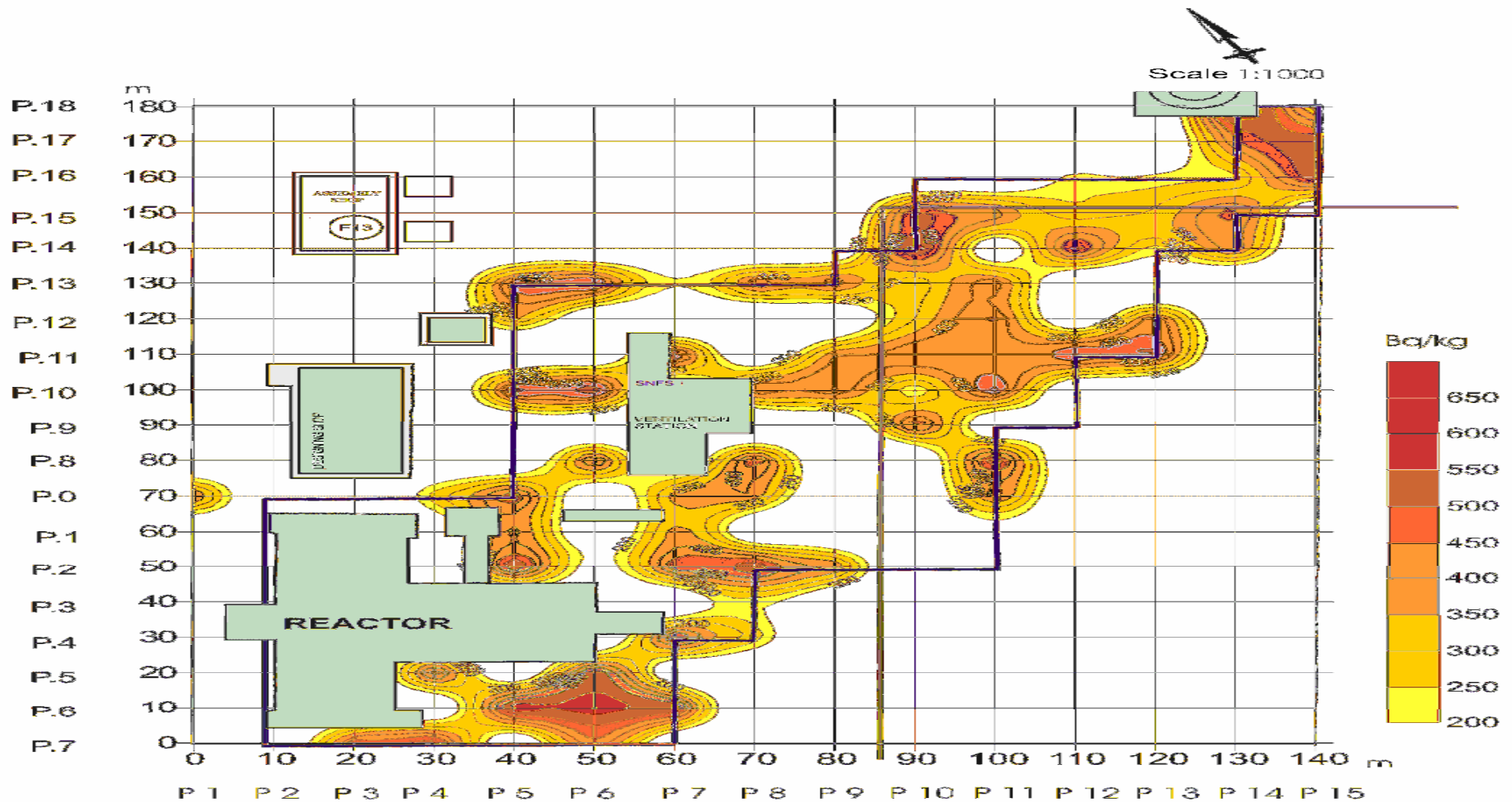


Fig.12. The distribution of K-40 in soil samples taken from 10 cm depth.

# Environmental factors characterization

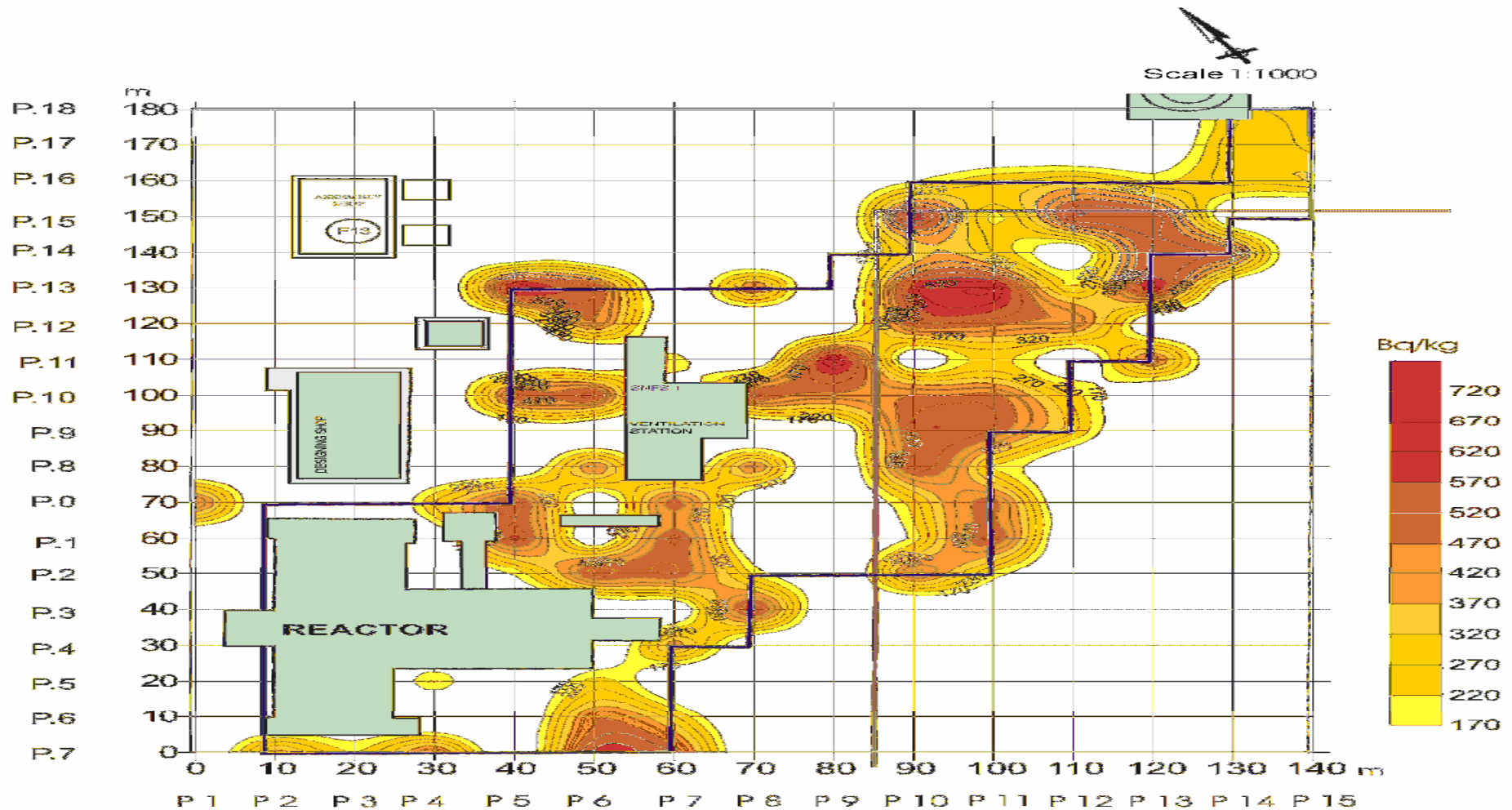
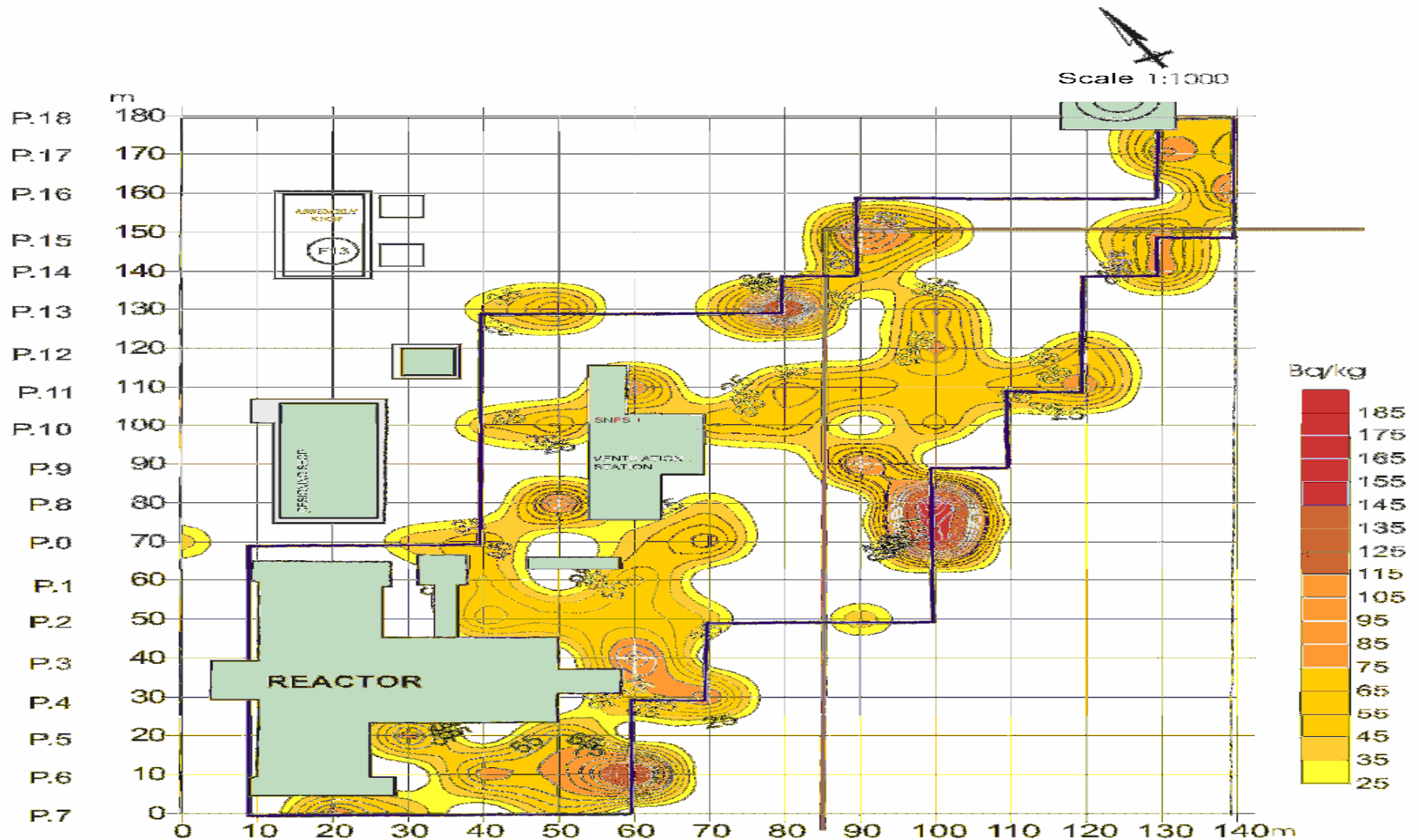


Fig. 13. The distribution of K-40 in soil samples taken from 30 cm depth.

# Environmental factors | characterization



# Environmental factors characterization

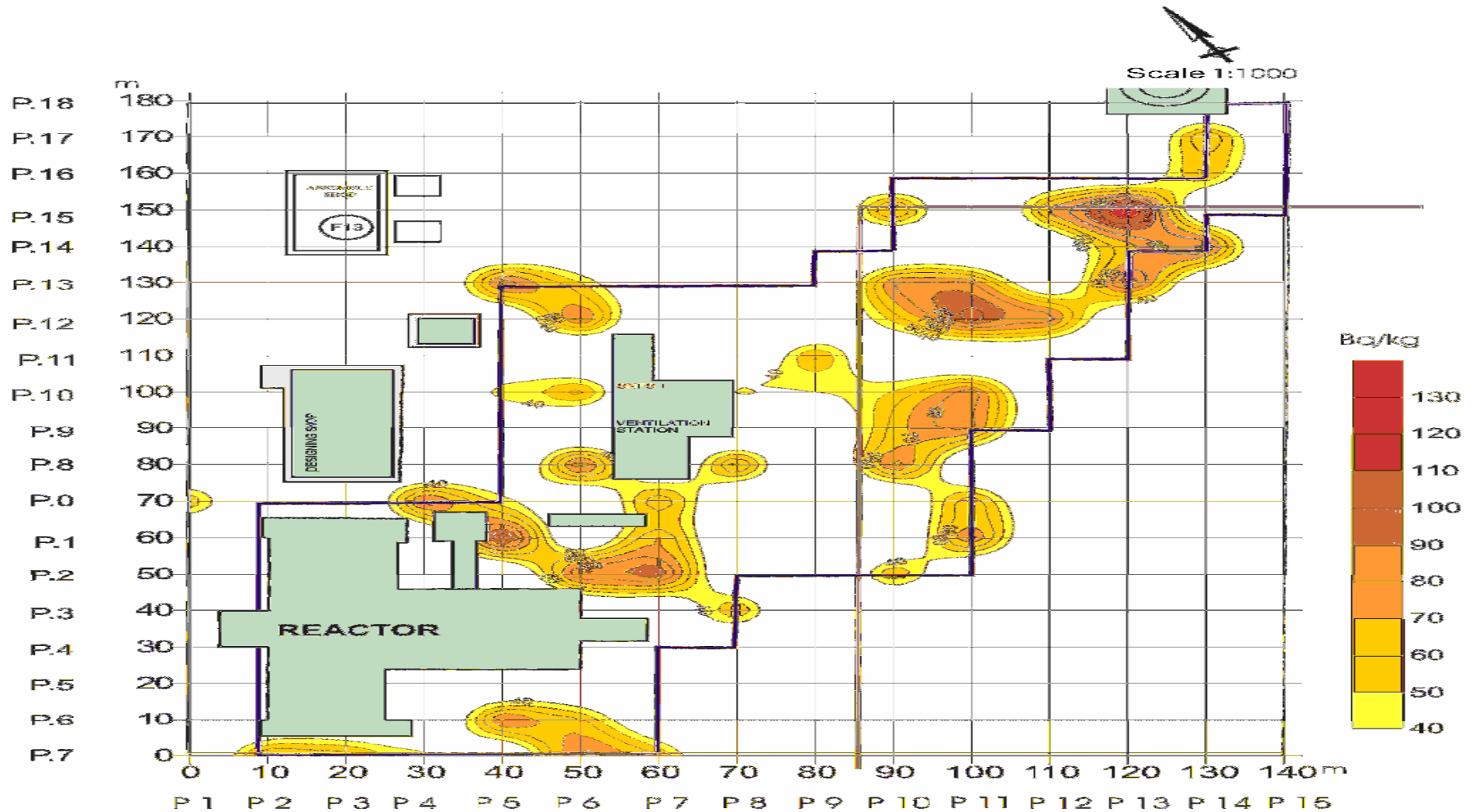


Fig. 15. The distribution of Bi-214+Ac-228 in soil samples taken from 30 cm depth.

# Environmental factors characterization

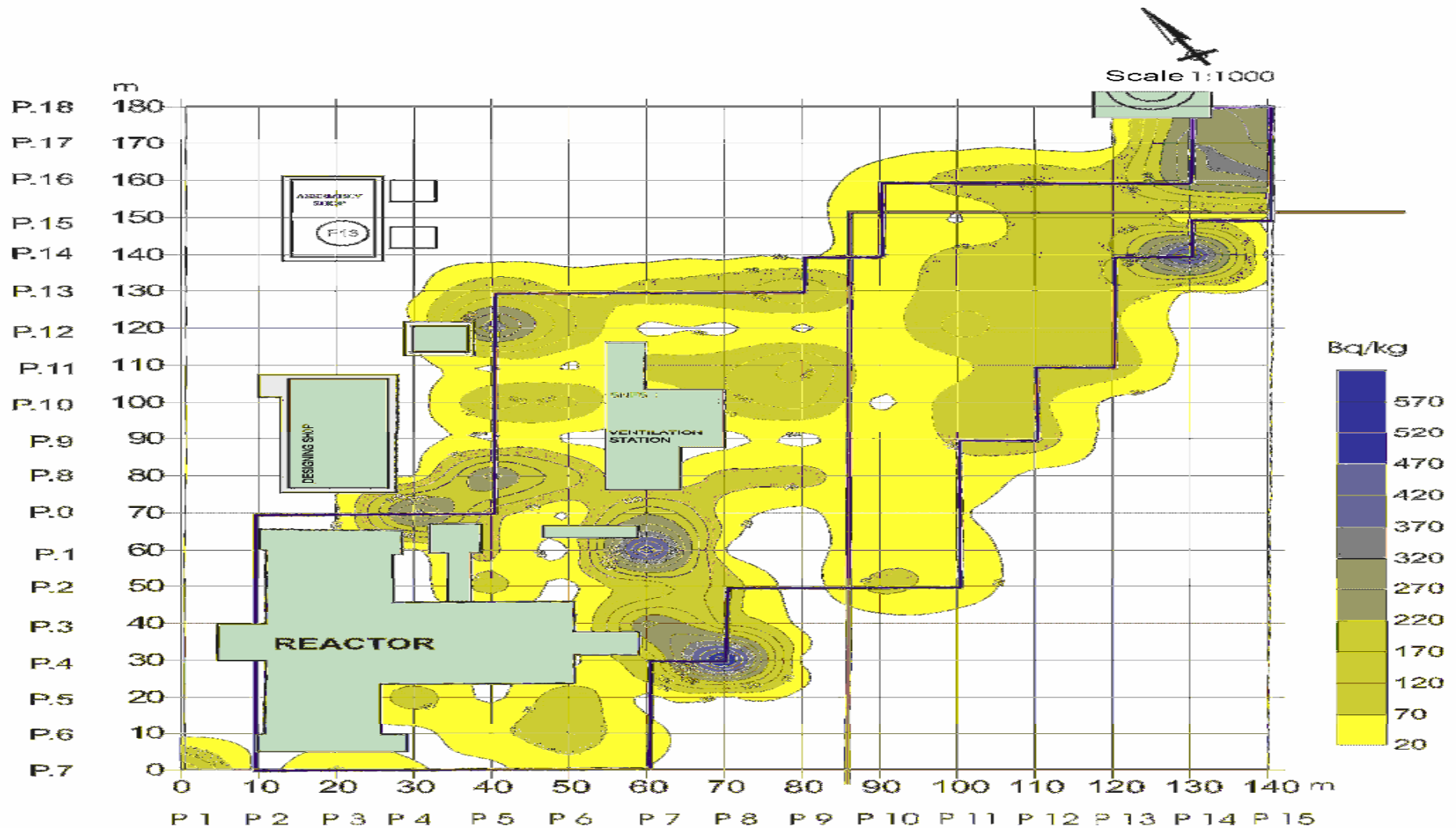
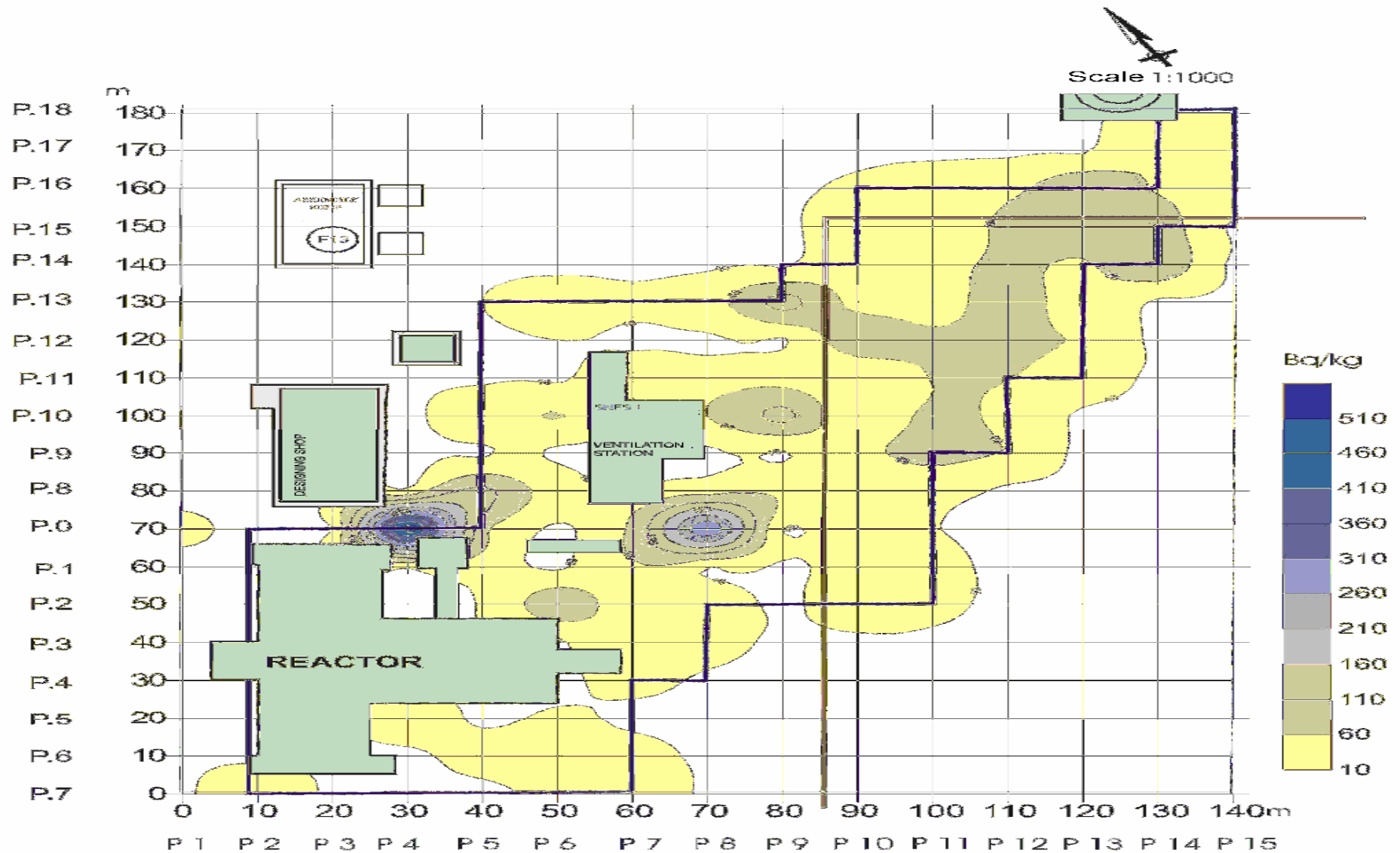


Fig.16. The distribution of Cs-137 in soil samples taken from 10 cm depth.



# Environmental factors characterization



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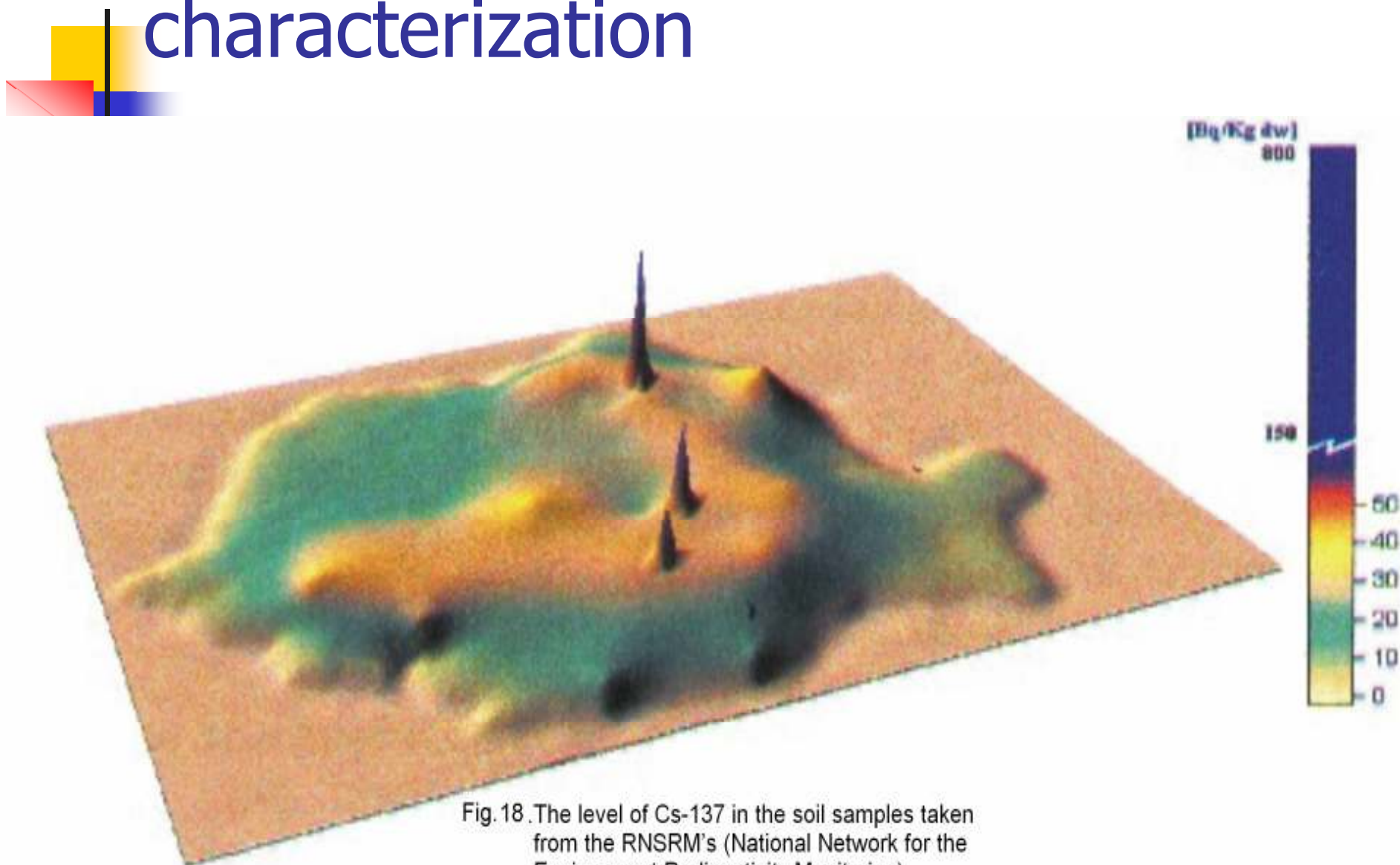


Fig.18. The level of Cs-137 in the soil samples taken from the RNSRM's (National Network for the Environment Radioactivity Monitoring) stations. (from the Ministry of Environment and Water Management's Report for the 2004)

# Environmental factors characterization

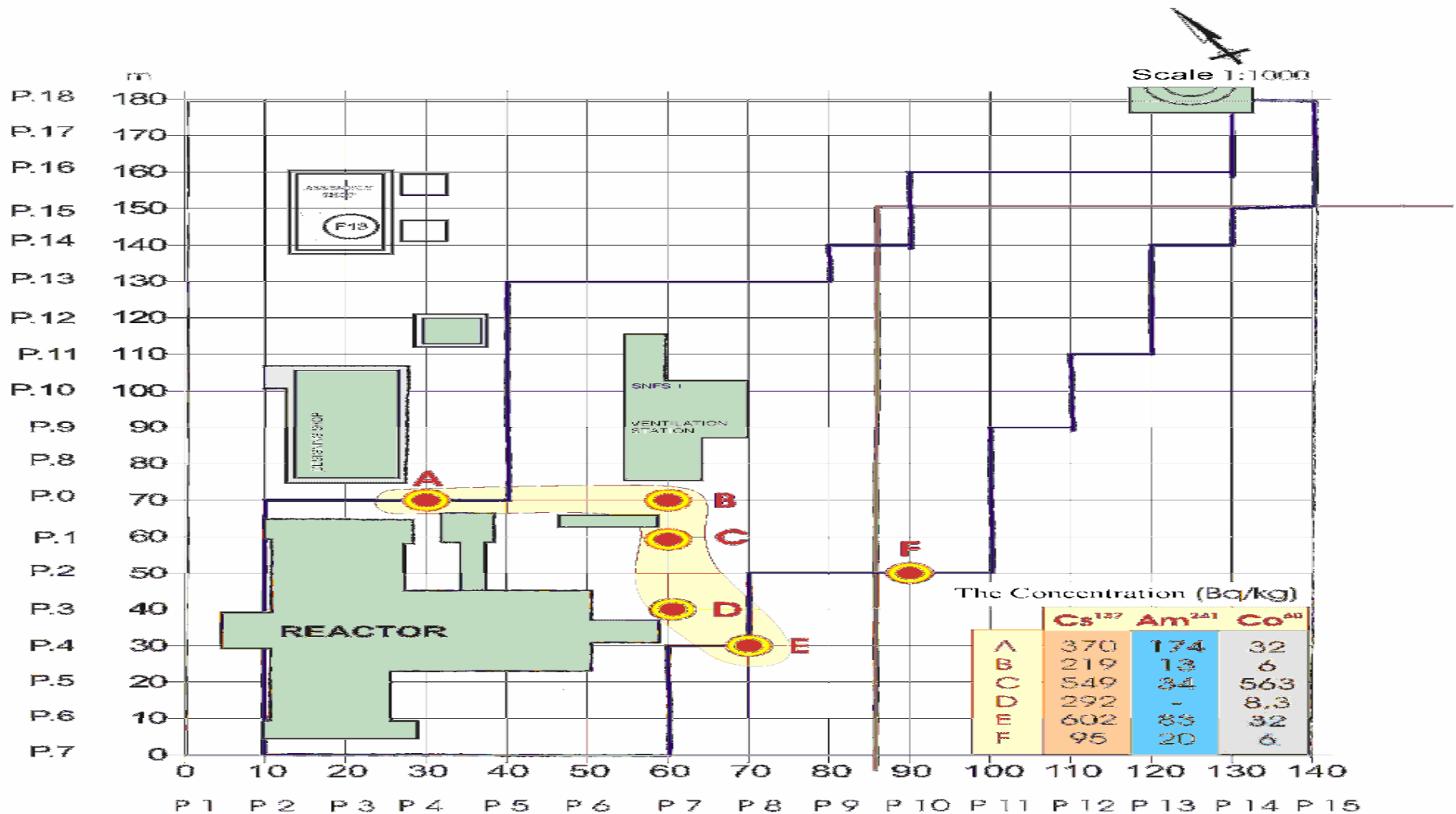


Fig. 19. The distribution of Cs-137, Am-241, Co-60 in the soil samples that were detected together.

# Environmental factors | characterization

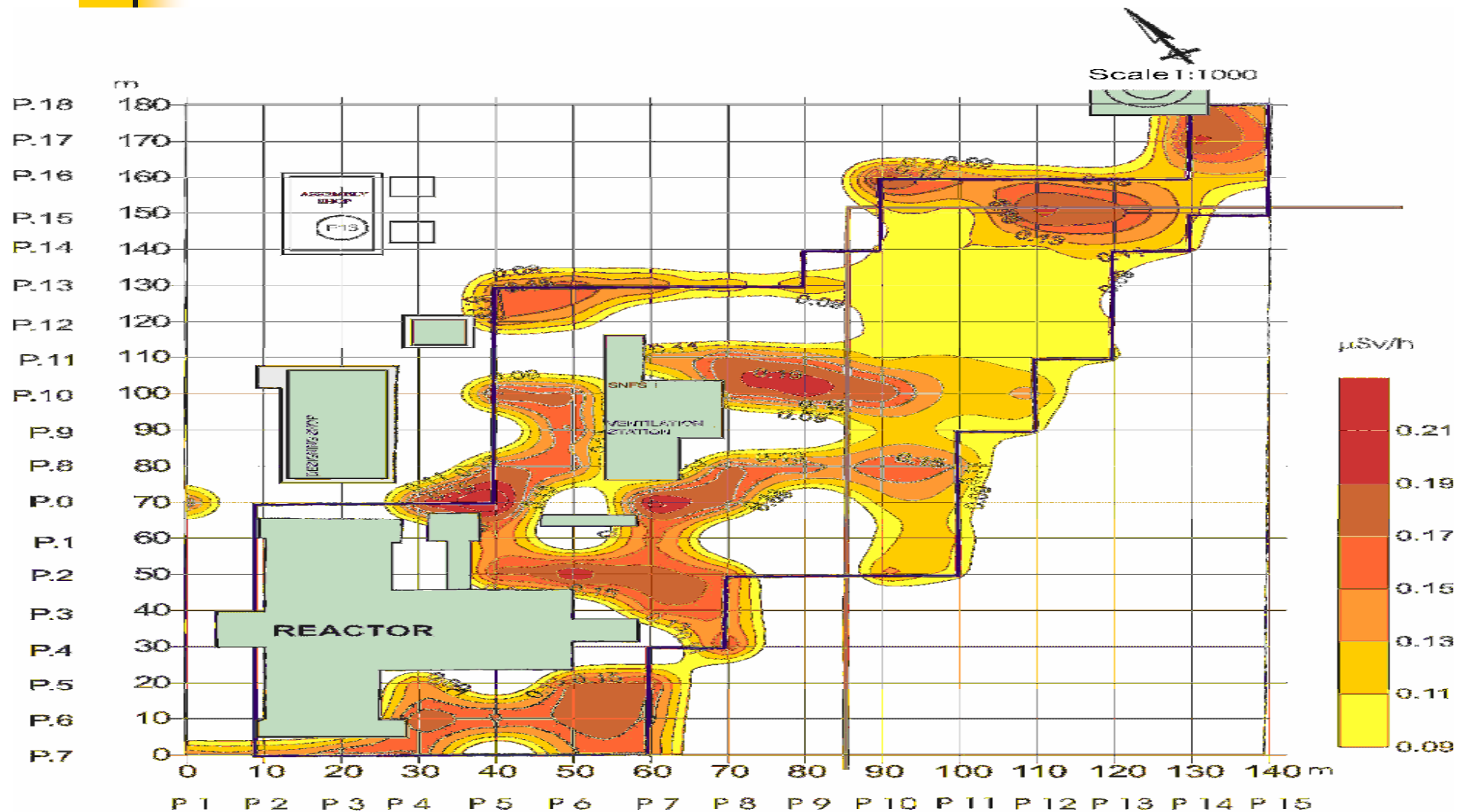


Fig. 20. The gamma dose debit's distribution at surface.

# Environmental factors characterization

