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## The Student Volume 5

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Original publisher: Greenbelt, Md. : NASA Goddard Space Flight Center, 2000 OCLC Number: (OCOlc)83756137 Excerpt: . . . 9. 3. 2 Calculated Variables Porewater CH4 concentration ( PWCH4 ) was calculated as:  $CH4hs = Po \cdot Kh \cdot Vhs / (CH4hs - CH4amb) \cdot RT$  where: CH4hs is the equilibrated headspace concentration of CH4 ( ppm ) P and Po are ambient and sea-level atmospheric pressures ( 101325 Pa ) CH4 Kh is the Henry's law constant for at ambient temperature ( 298 K ) Vhs and Vw are the volumes of headspace and water in the syringe CH4amb is the ambient CH4 concentration ( 1. 8 ppmv ) R is the universal gas constant ( 8314. 4 L Pa K mol ) T is the ambient temperature ( 298 K ) Porewater concentration calculated as: ( PWCO2 ) was  $CO2 = CO2hs \cdot Po \cdot Kh / (1 \cdot Ka1 \cdot 10pH + 1 \cdot Ka2 \cdot 10pH) \cdot Vhs / (CO2hs - CO2amb) \cdot RT$  where: is the equilibrated headspace concentration of ( ppm ) CO2hs CO2 P and Po are ambient and sea-level atmospheric pressures ( 101325 Pa ) Kh is...


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