R. Allan Freeze
Department of Geological Sciences
University of British Columbia
Vancouver, British Columbia

John A. Cherry
Department of Earth Sciences
University of Waterloo
Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc.
Englewood Cliffs, New Jersey 07632

LES Exhibit 7
Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

<table>
<thead>
<tr>
<th>Rocks</th>
<th>Unconsolidated deposits</th>
<th>k (darcy)</th>
<th>K (cm²)</th>
<th>K (cm/s)</th>
<th>K (m/s)</th>
<th>K (gal/day/ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine-grained sediments</td>
<td></td>
<td>$10^{-5}$</td>
<td>$10^{-3}$</td>
<td>$10^{-2}$</td>
<td>$1$</td>
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</tr>
<tr>
<td>Coarse-grained sediments</td>
<td></td>
<td>$10^{-4}$</td>
<td>$10^{-1}$</td>
<td>$10^{0}$</td>
<td>$10^{1}$</td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td></td>
<td>$10^{-5}$</td>
<td>$10^{-7}$</td>
<td>$10^{-9}$</td>
<td>$10^{-11}$</td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td>$10^{-6}$</td>
<td>$10^{-8}$</td>
<td>$10^{-10}$</td>
<td>$10^{-12}$</td>
<td></td>
</tr>
<tr>
<td>Cinder</td>
<td></td>
<td>$10^{-7}$</td>
<td>$10^{-9}$</td>
<td>$10^{-11}$</td>
<td>$10^{-13}$</td>
<td></td>
</tr>
<tr>
<td>Unconsolidated deposits</td>
<td></td>
<td>$10^{-8}$</td>
<td>$10^{-10}$</td>
<td>$10^{-12}$</td>
<td>$10^{-14}$</td>
<td></td>
</tr>
<tr>
<td>Unconsolidated deposits</td>
<td></td>
<td>$10^{-9}$</td>
<td>$10^{-11}$</td>
<td>$10^{-13}$</td>
<td>$10^{-15}$</td>
<td></td>
</tr>
<tr>
<td>Unconsolidated deposits</td>
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<td>$10^{-12}$</td>
<td>$10^{-14}$</td>
<td>$10^{-16}$</td>
<td></td>
</tr>
<tr>
<td>Unconsolidated deposits</td>
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<td>$10^{-11}$</td>
<td>$10^{-13}$</td>
<td>$10^{-15}$</td>
<td>$10^{-17}$</td>
<td></td>
</tr>
<tr>
<td>Unconsolidated deposits</td>
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<td>$10^{-12}$</td>
<td>$10^{-14}$</td>
<td>$10^{-16}$</td>
<td>$10^{-18}$</td>
<td></td>
</tr>
</tbody>
</table>

Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

<table>
<thead>
<tr>
<th>Permeability, k*</th>
<th>Hydraulic conductivity, K</th>
</tr>
</thead>
<tbody>
<tr>
<td>cm²</td>
<td>ft²</td>
</tr>
<tr>
<td>1</td>
<td>1.08 x 10⁻³</td>
</tr>
<tr>
<td>9.29 x 10²</td>
<td>1</td>
</tr>
<tr>
<td>9.87 x 10⁻⁹</td>
<td>9.16 x 10⁻¹²</td>
</tr>
<tr>
<td>1.02 x 10⁻³</td>
<td>1.04 x 10⁻¹²</td>
</tr>
<tr>
<td>3.11 x 10⁻⁴</td>
<td>3.35 x 10⁻¹⁷</td>
</tr>
<tr>
<td>U.S. gal/day/ft²</td>
<td>5.42 x 10⁻⁴</td>
</tr>
</tbody>
</table>

*To obtain k in ft², multiply k in cm² by 1.08 x 10⁻³.