These are the human health toxicity data that were used by the Department to derive its health based criteria.

**4-Methylphenol (p-cresol)**

<table>
<thead>
<tr>
<th>Media</th>
<th>Carcinogen Group</th>
<th>Oral Slope Factor: (mg/kg/day)$^{-1}$</th>
<th>Oral Reference Dose: (mg/kg/day)</th>
<th>Basis:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drinking water</strong></td>
<td>C *</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Ground water</strong></td>
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<tr>
<td><strong>Surface water</strong></td>
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</tr>
<tr>
<td><strong>Soil</strong></td>
<td>C *</td>
<td>Unit Risk Factor: (ug/m$^3$)$^{-1}$</td>
<td>Reference Concentration: (ug/m$^3$)</td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Reference Doses for Group C chemicals are shown with uncertainty factor of 10 for possible carcinogenicity included. These are the Reference Doses used to derive criteria for all media. In the Basis and Background documents for these criteria, these Reference Doses may or may not be shown with this uncertainty factor incorporated.
1. Carcinogen Classification - All classifications are based on IRIS unless stated otherwise.

1999 Cancer Draft Guidelines:
- KNOWN - Known carcinogen
- CANTDET - Can not determine carcinogenic classification
- LIK - Likely to be a human carcinogen
- NLIK - Not likely to be a carcinogen
- ORL - Oral exposure route
- INHL - Inhalation exposure route

1986 Cancer Guidelines:
- Group A - Human carcinogen
- Group B - Probable human carcinogen
- Group B2 - Sufficient evidence from animal studies and inadequate or no data from epidemiologic studies
- Group C - Possible human carcinogen
- Group D - Not classifiable as to human carcinogenicity
- Group E - Evidence on non-carcinogenicity for humans

2. References:
- IRIS - Integrated Risk Information System
- HEAST- Health Effects Assessment Summary Tables
- NCEA - National Center for Environmental Assessment/EPA Provisional Value
- DEP- NJ Department of Environmental Protection
- NR02- EPA National Recommended Water Quality Criteria 2002

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