

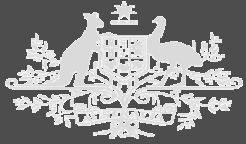


Australian Government

Australian Radiation Protection and Nuclear Safety Agency

EMRAS
NORM Working Group
Vienna
November - 2006





Cyprus Meeting - May

- ▶ Development and testing of hypothetical scenarios
 - Point source
 - Area source
 - Area source + river
- ▶ Site visit – disused phosphogypsum dump
- ▶ Real scenarios



Australian Government

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Point Source Scenario

CAP88, COMPLY, PC-CREAM

Further work:

- ▶ look at effect of changes in wind direction
- ▶ Compare predictions from different models
- ▶ Real scenario (Megalopolis)



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Area source scenario

DOSDIM + HYDRUS, RESRAD-ONSITE,
RESRAD-OFFSITE

Further work:

- ▶ Compare predictions from different models
- ▶ Look at effect of distance from source
- ▶ Real scenario ?



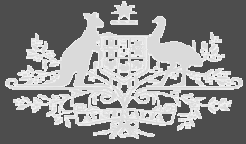
Australian Government

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Area Source + River

To be discussed at this meeting





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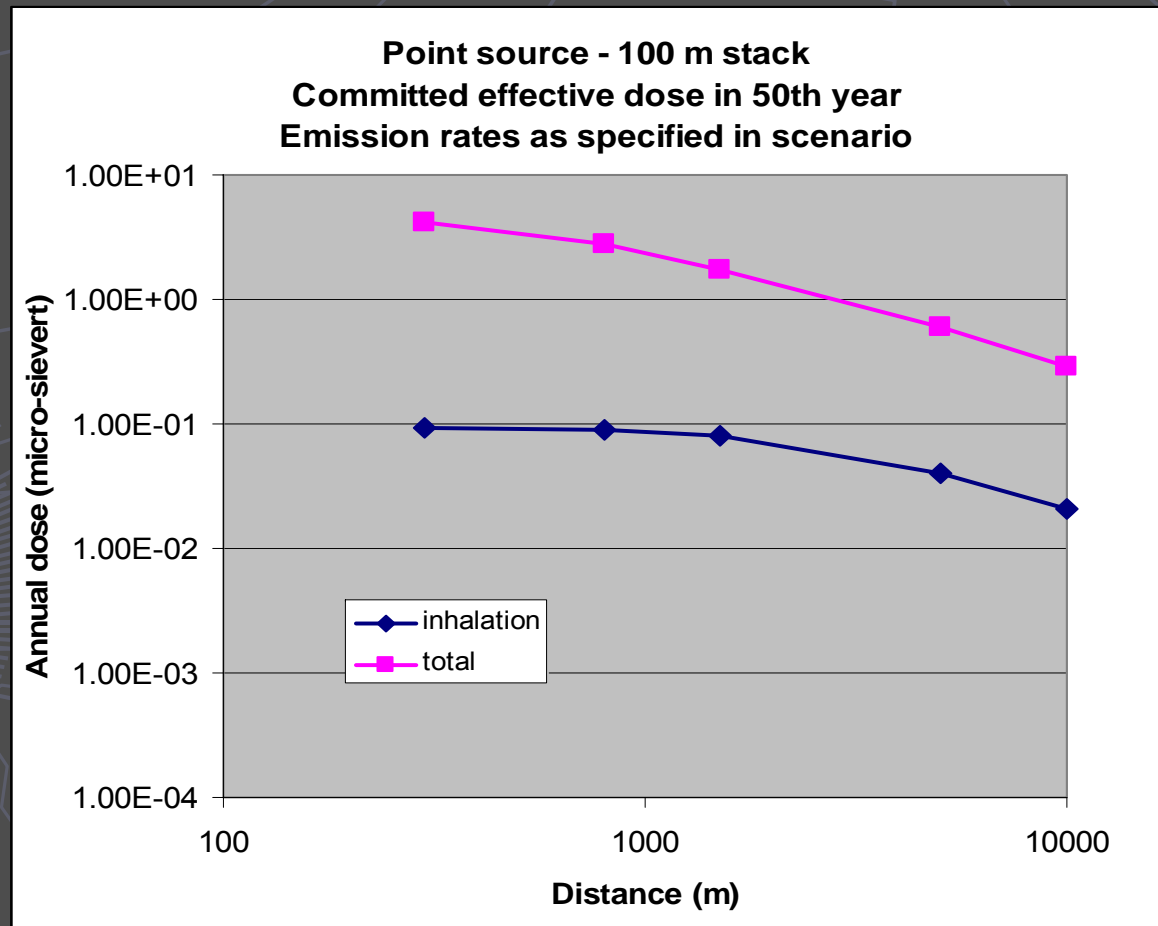
Final Report

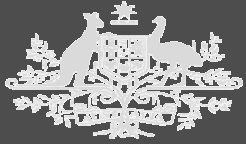
First draft to be presented and discussed at this meeting





Hypothetical Scenario – point source

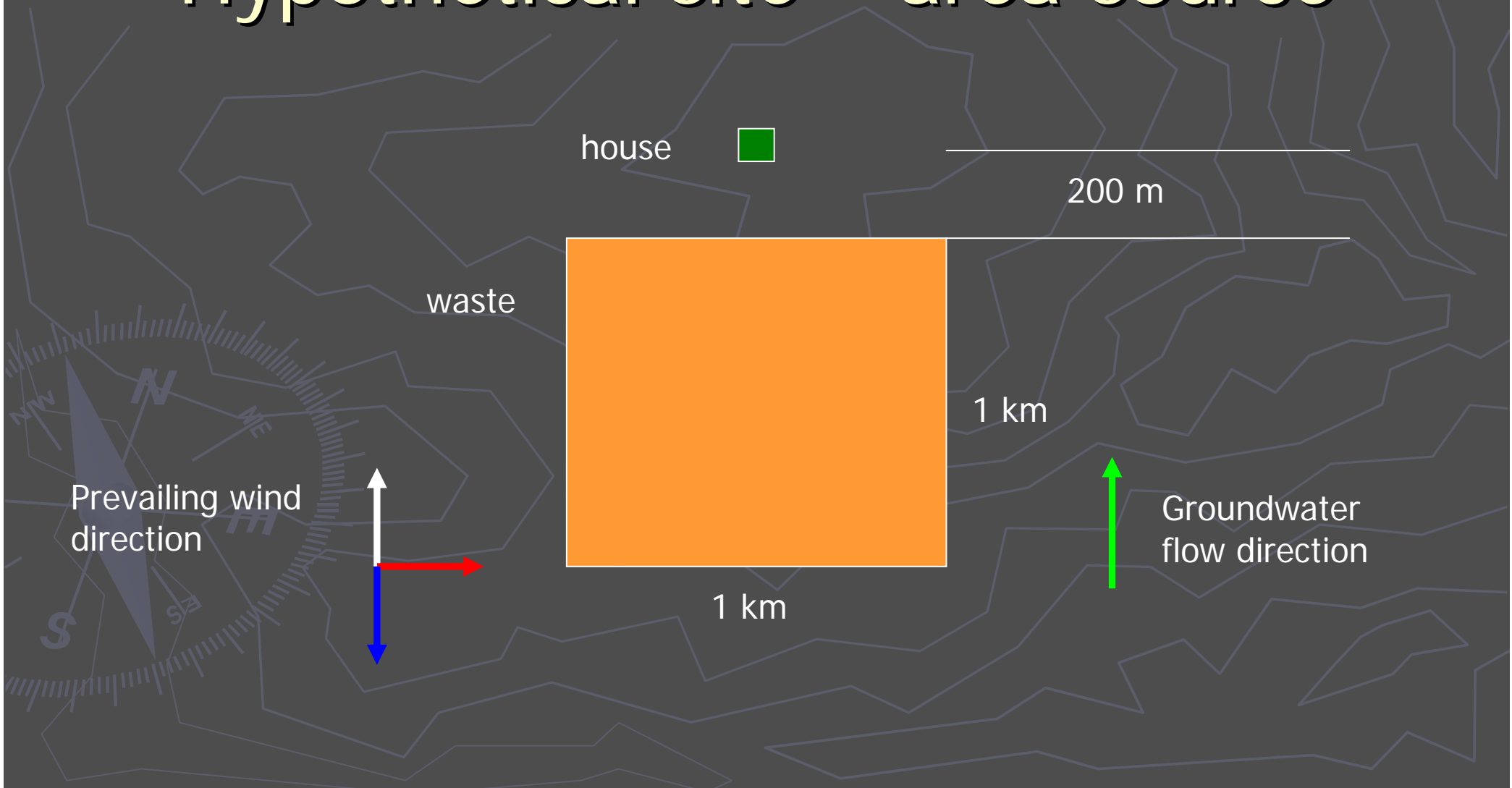


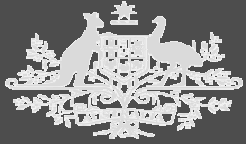


Australian Government

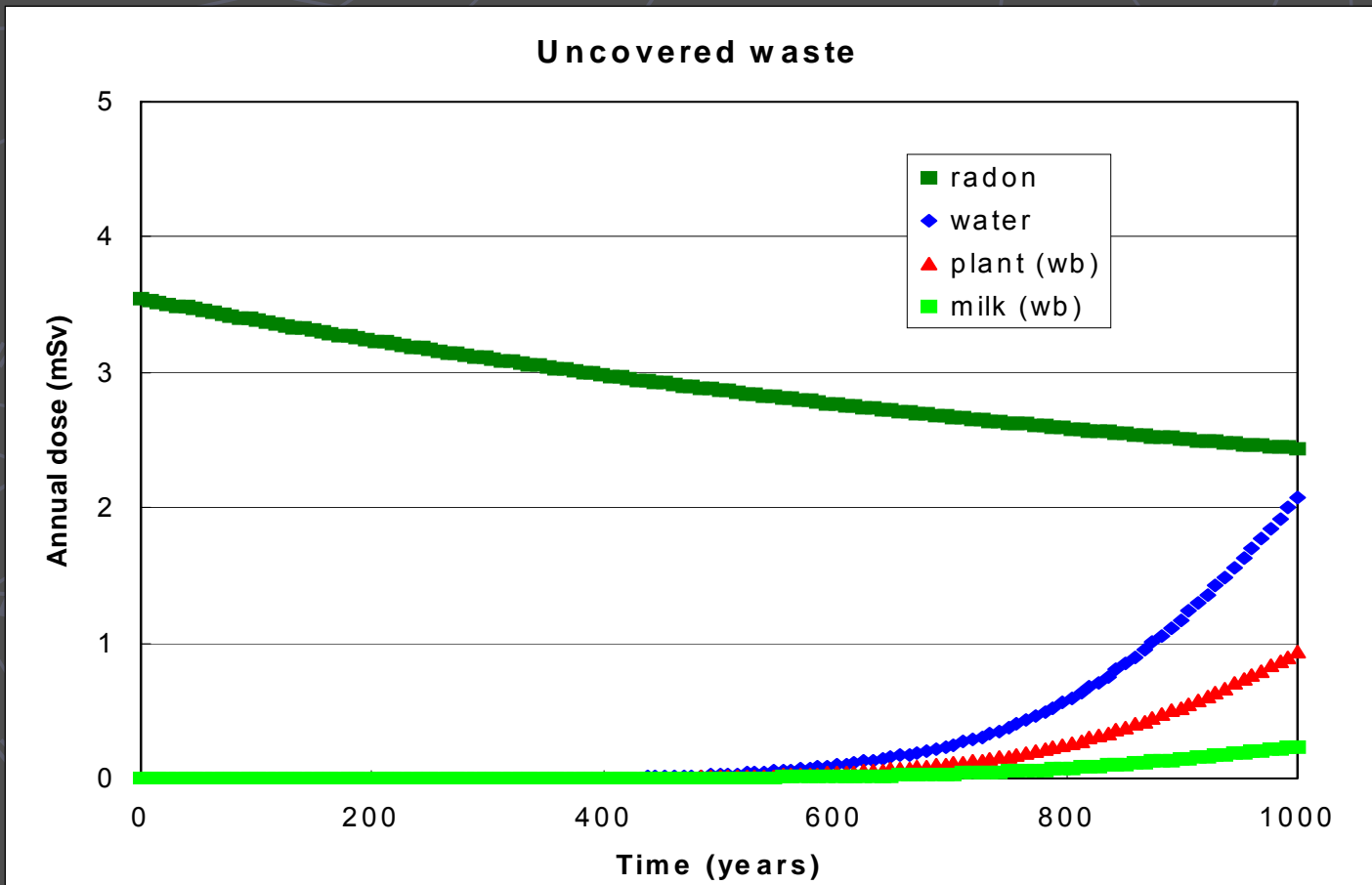
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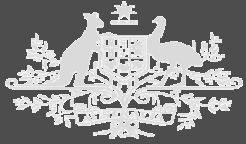
Hypothetical site – area source



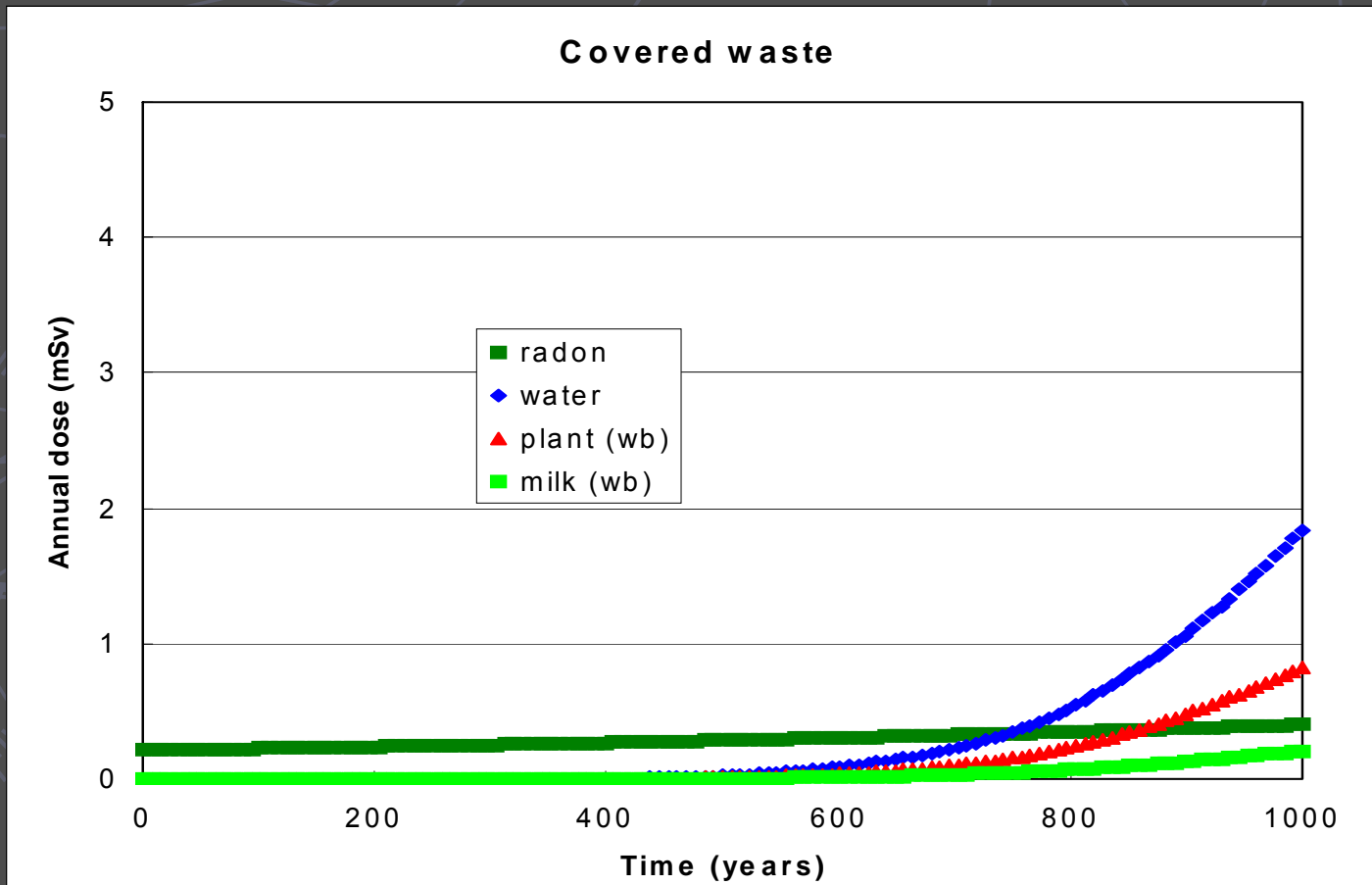


RESRAD OFFSITE – results when prevailing wind direction is the same as groundwater flow direction – uncovered waste



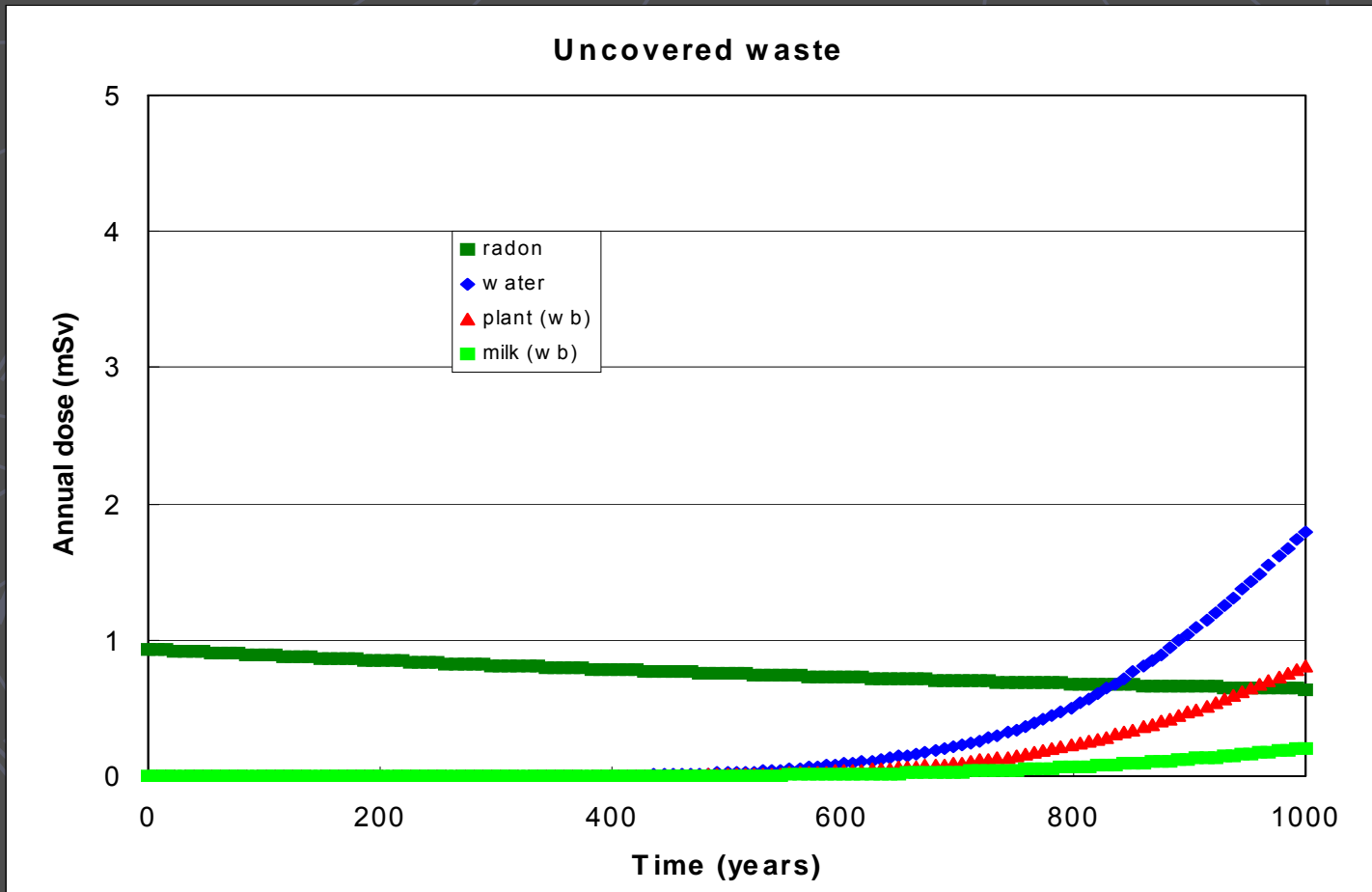


RESRAD OFFSITE – results when prevailing wind direction is the same as groundwater flow direction– covered waste



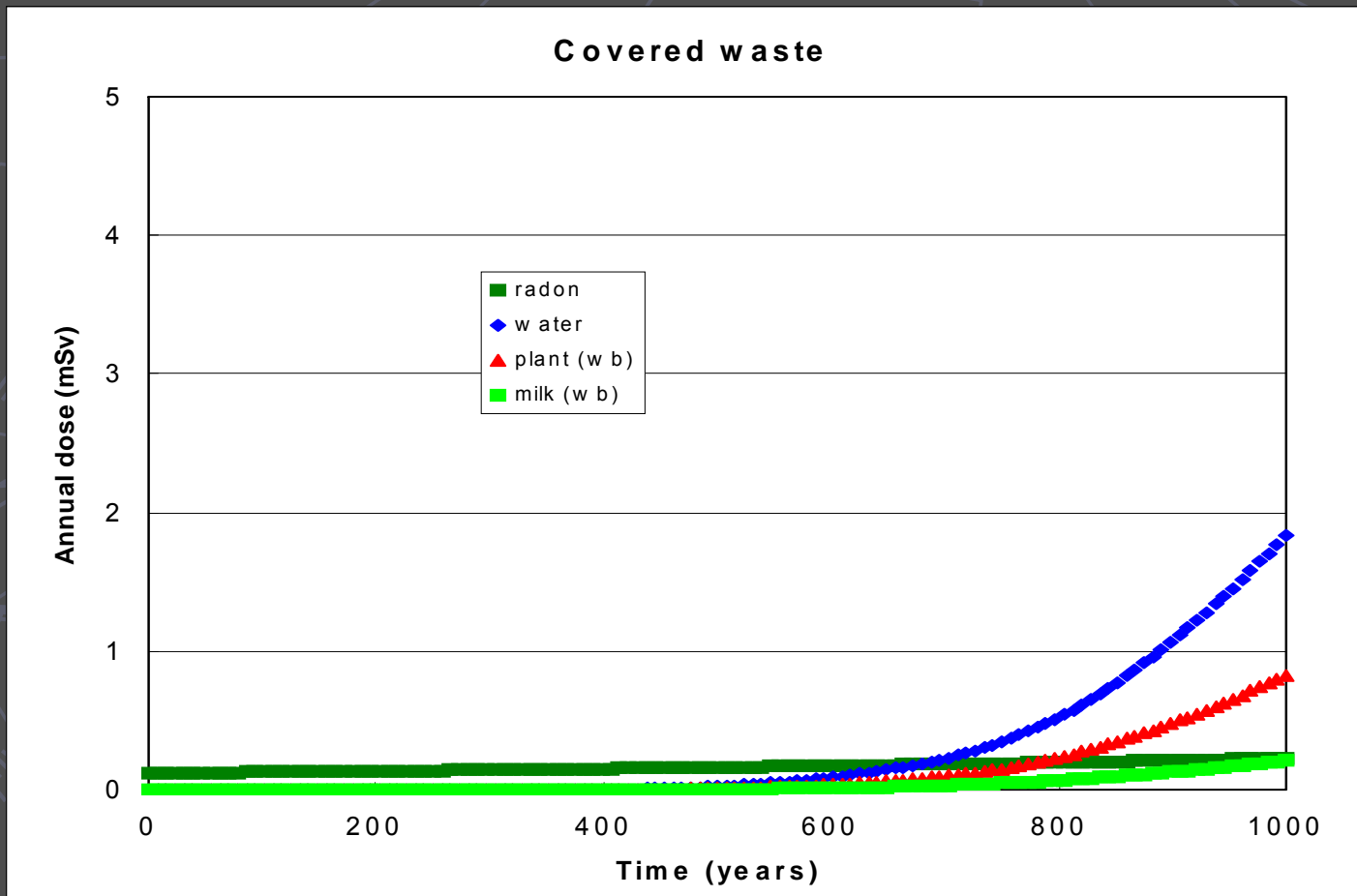


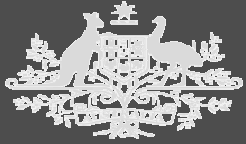
RESRAD OFFSITE – results when prevailing wind direction is at right angles to groundwater flow direction – uncovered waste





RESRAD OFFSITE – results when prevailing wind direction is at right angles to groundwater flow direction – covered waste





RESRAD OFFSITE – results when prevailing wind direction is **opposite** to groundwater flow direction – uncovered waste

