

- groundwater by leaching of contaminants from waste and soil to groundwater and vertical and lateral migration of contaminants within leachate and groundwater;
- on-site property by direct contact with contaminants in soil, leachate and shallow groundwater.

Pollutant Linkages

Contaminants, pathways and receptors have been further evaluated to identify instances where all three elements (contaminants, pathways and receptors) exist together and form a pollutant linkage. The conceptual model developed for these contaminants should be regarded as complete and accurate as it can be based upon the currently held information.

Based on the information reviewed as part of this assessment, pollutant linkages have been identified as follows:

Human Health:

one hundred and fifty-six linkages, number 1 to 156 inclusive, linking acetone, acidity/alkalinity, arsenic, aromatic hydrocarbons (all 7 contaminants), asbestos, beryllium, cadmium, chlorinated aliphatic hydrocarbons (all 10 contaminants), chlorinated aromatic hydrocarbons (all 5 contaminants), chromium, cyanides, lead, mercury, methane, nickel, oil/fuel hydrocarbons, organotin, selenium, sulphur and vanadium to on-site occupants, visitors, construction and utility workers and trespassers.

There is a reasonable possibility that these 156 linkages are present and further investigation is required to confirm the presence and significance of these linkages;

one hundred and fifty-two linkages, number 157 to 308 inclusive, linking acetone, acidity/alkalinity, arsenic, aromatic hydrocarbons (all 7 contaminants), beryllium, cadmium, chlorinated aliphatic hydrocarbons (all 10 contaminants), chlorinated aromatic hydrocarbons (all 5 contaminants), chromium, cyanides, lead, mercury, methane, nickel, oil/fuel hydrocarbons, organotin, selenium, sulphur and vanadium to off-site occupants, visitors, construction and utility workers and trespassers.

There is a reasonable possibility that these 152 linkages are present and further investigation is required to confirm the presence and significance of these linkages;

Controlled Waters:

forty-six linkages, number 309 to 354 inclusive, linking acetone, acidity/alkalinity, aldehydes, ammonia, arsenic, aromatic hydrocarbons (all 7 contaminants), barium, beryllium, boron, cadmium, chlorinated aliphatic hydrocarbons (all 10 contaminants),