

4.56 Groundwater samples were taken from the boreholes and Birchenwood Brook with laboratory analysis for:

- purgeable volatile organic compounds. Chlorobenzenes, chloroethane, dichloroethane, dichloropropane, trimethylbenzenes, propyl benzenes, benzene, toluene, ethylbenzene and xylenes (BTEX) were identified above the laboratory method detection limit.* The details of the VOC results are discussed below;
- dissolved methane,
- metals including arsenic, boron, cadmium, chromium, copper, lead, mercury, nickel, selenium and zinc. Arsenic and boron were identified above the laboratory method detection limit;
- cyanides, sulphates, sulphides. Sulphates and sulphides were identified above the laboratory method detection limit;
- pH;
- phenols. Phenols were identified above the laboratory method detection limit;
- oil and grease. Concentrations were identified above the laboratory method detection limit;
- chlorides. Concentrations were identified above the laboratory method detection limit.

4.57 A brief summary of four trial pits, excavated by Cheshire County Council Engineering Department for Congleton Borough Council, was included in the report, together with a statement that the whole site was reclaimed by Congleton Borough Council and Cheshire County Council in the early 1970s under the guidance of AERE Harwell (Harwell). The reclamation works are those described above in the "General and Special Conditions of Contract" of 1972.

4.58 Concentrations of volatile organic compounds* detected in groundwater were as follows:

- chlorobenzenes – 10 to 1601 µg/l;
- benzene – 27 to 6,222 µg/l;
- toluene – 6 to 977 µg/l;