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STATUTORY INSTRUMENTS

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**2005 No. 1640**

**The Landfill (England and Wales)  
(Amendment) Regulations 2005**

**Amendment of the Landfill (England and Wales) (Amendment) Regulations 2004**

**16.** For paragraph 20 (sampling and testing) of the schedule substituted by the Schedule substitute—

**“Sampling and testing**

**20.—(1)** All sampling and testing required by this Schedule shall be carried out in accordance with this paragraph.

(2) Subject to sub-paragraph (3), sampling and testing shall be carried out by independent and qualified persons and institutions and only laboratories which have proven experience in waste testing and analysis and an efficient quality assurance system shall be used.

(3) Sampling and testing may be carried out by producers of waste or operators where—

- (a) there is sufficient supervision by independent and qualified persons to ensure that the requirements of this Schedule are met; and
- (b) it is carried out in accordance with an appropriate quality assurance system which includes periodic independent checking.

(4) All sampling shall be carried out using a sampling plan developed in accordance with PrEN 14899.

(5) The following standards shall be used for the sampling and testing of general waste properties—

- (a) EN 13137 for the determination of TOC in waste, sludge and sediments;
- (b) PrEN 14346 for the calculation of dry matter by determination of dry residue or water content;
- (c) EN 12879 for the determination of loss on ignition of dry mass.

(6) The following standards shall be used for strength and stability tests—

- (a) for cohesive granular waste, BS 1377-9:1990 (section 4.4: determination of in situ vane shear strength of weak intact cohesive soils);
- (b) for non-cohesive granular waste, BS 1377-9:1990 (section 4.3: determination of in situ California Bearing Ratio);
- (c) for monolithic waste, BS 1924-2:1990.

(7) The following standards shall be used for leaching tests—

- (a) for granular waste—
  - (i) DD CEN/TS 14405:2004 for leaching behaviour using the up-flow percolation test;
  - (ii) PrCEN/TS 14429 for leaching behaviour using the test for the influence of pH on leaching with initial acid/base addition;

- (iii) EN 12457/1 to 3 for leaching of granular waste materials and sludges.
- (b) for monolithic waste—
  - (i) EA NEN 7371:2004 for leaching behaviour of crushed monolith using the test for the determination of availability of inorganic components;
  - (ii) PrCEN/TS 14429 for leaching behaviour of crushed monolith using the test for the influence of pH on leaching with initial acid/base addition;
  - (iii) either—
    - (aa) EN 12457/1 to 3 for the leaching behaviour of crushed monolith using the batch leaching test for granular waste materials and sludges; or
    - (bb) EA NEN 7375:2004 for leaching behaviour of monolithic waste using the diffusion tank test.
- (8) The following standards shall be used for the digestion of raw waste—
  - (a) EN 13657 for the digestion for subsequent determination of aqua regia portion of elements;
  - (b) EN 13656 for the microwave-assisted digestion of specified acid mixtures for subsequent determination of elements.
- (9) The following standards shall be used for analyses—
  - (a) EN 12506 and EN 13370 for analysis of eluates;
  - (b) EN 14039 for determination of certain hydrocarbon contents.
- (10) For tests and analysis for which CEN standards are not available, the methods used must be approved by the Environment Agency.”.