

Appendix 1

Main Class of Activities from

- Schedule 1 of Protection of Environment Act (2003) and
- 3rd and 4th Schedules of Waste Management Act (1996)

with their Default (Initial) Complexity Rating

January 2020

Activity	Description	Default Complexity (2019)
1.3 (a)	The extraction and processing (including size reduction, grading and heating) of minerals within the meaning of the Minerals Development Acts, 1940 to 1999, where an activity involves a metalliferous operation	G5
1.3 (b)	The extraction and processing (including size reduction, grading and heating) of minerals within the meaning of the Minerals Development Acts, 1940 to 1999, where an activity involves any other operation where either the level of extracted or processed minerals is greater than 200,000 tonnes per annum or the total operational yield is greater than 1,000,000 tonnes and storage of related mineral waste	G3
1.4	The extraction of peat in the course of business which involves an area exceeding 50 hectares	G2
10.2	Production of cement clinker in rotary kilns with a production capacity exceeding 500 tonnes per day or in other kilns with a production capacity exceeding 50 tonnes per day.	G4

Activity	Description	Default Complexity (2019)
10.3	Production of lime in kilns with a production capacity exceeding 50 tonnes per day.	G3
11.1	The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.	n/a
11.2 (a)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment	G4
11.2 (b)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	G4
11.2 (c)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving blending or mixing prior to submission to any of the other activities listed in paragraph 11.2 or 11.3	G4
11.2 (d)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging prior to submission to any of the other activities listed in paragraph 11.2 or 11.3	G4
11.2 (e)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving solvent reclamation or regeneration	G4
11.2 (f)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving recycling or reclamation of inorganic materials other than metals or metal compounds	G4
11.2 (g)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving regeneration of acids or bases	G4

Activity	Description	Default Complexity (2019)
11.2 (h)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving recovery of components used for pollution abatement	G4
11.2 (i)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving recovery of components from catalysts	G4
11.2 (j)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving oil re-defining or other reuses of oil	G4
11.3 (a)	Disposal or recovery of waste in waste incineration plants or in waste co-incineration plants for non-hazardous waste with a capacity exceeding 3 tonnes per hour	G5
11.3 (b)	Disposal or recovery of waste in waste incineration plants or in waste co-incineration plants for hazardous waste with a capacity exceeding 10 tonnes per day.	G6
11.4 (a)(i)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving one or more of the following activities (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): biological treatment	G2
11.4 (a)(ii)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving one or more of the following activities (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): physico-chemical treatment;	G3
11.4 (a)(iii)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving one or more of the following activities (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): pre-treatment of waste for incineration or coincineration;	G3

Activity	Description	Default Complexity (2019)
11.4 (b)(i)	Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): biological treatment; when the only waste treatment activity carried out is anaerobic digestion, the capacity threshold for this activity shall be 100 tonnes per day.	G3
11.4 (b)(ii)	Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): pre-treatment of waste for incineration or co-incineration;	G3
11.4 (b)(iii)	Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): treatment of slags and ashes;	G3
11.4 (b)(iv)	Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components;	G3
11.5	Landfills, within the meaning of section 5 (amended by Regulation 11(1) of the Waste Management (Certification of Historic Unlicensed Waste Disposal and Recovery Activity) Regulations 2008 (S.I. No. 524 of 2008)) of the Act of 1996, receiving more than 10 tonnes of waste per day or with a total capacity exceeding 25,000 tonnes, other than landfills of inert waste.	G4

Activity	Description	Default Complexity (2019)
11.6	Temporary storage of hazardous waste, (other than waste referred to in paragraph 11.5) pending any of the activities referred to in paragraph 11.2, 11.3, 11.5 or 11.7 with a total capacity exceeding 50 tonnes, other than temporary storage, pending collection, on the site where the waste is generated.	G4
12.2.1	The surface treatment of substances, objects or products using organic solvents, in particular for dressing, printing, coating, degreasing, waterproofing, sizing, painting, cleaning or impregnating, with a consumption capacity of more than 150 kg per hour or more than 200 tonnes per year.	G4
12.2.2	The manufacture or use of coating materials in processes with a capacity to make or use at least 10 tonnes per year of organic solvents, and powder coating manufacture with a capacity to produce at least 50 tonnes per year, not included in paragraph 12.2.1.	G3
12.3	The surface treatment of metals and plastic materials using an electrolytic or chemical process where the volume of the treatment vats exceeds 30 m ³ .	G3
13.1	The testing of engines, turbines or reactors where the floor area exceeds 500 square metres.	G2
13.2	The manufacture of integrated circuits and printed circuit boards	G2
13.4.1	The manufacture of ceramic products by firing, in particular roofing tiles, bricks, refractory bricks, tiles, stoneware or porcelain, with a production capacity exceeding 75 tonnes per day, or with a kiln capacity exceeding 4 m ³ and a setting density per kiln exceeding 300 kg/m ³ .	G4
13.4.2	The manufacture of coarse ceramics including refractory bricks, stoneware pipes, facing and floor bricks and roof tiles, not included in paragraph 13.4.1.	G4
14.1	No activity within the First Schedule of the EPA Acts 1992-2013	G3

Activity	Description	Default Complexity (2019)
15	Extra class added to deal with certain closed waste facilities that are considered a higher complexity than 14.1	G4
2.1	Combustion of fuels in installations with a total rated thermal input of 50 MW or more.	G3
3.1.2	The initial melting or production of iron or steel, not included in paragraph 3.1.1.	G3
3.2.1 (c)	The processing of ferrous metals: application of protective fused metal coats with an input exceeding 2 tonnes of crude steel per hour.	G3
3.2.2	The processing of iron and steel in forges, drawing plants and rolling mills where the production area exceeds 500 square metres, not included in paragraph 3.2.1.	G3
3.3.1	The operation of ferrous metal foundries with a production capacity exceeding 20 tonnes per day.	G3
3.3.2	The production, recovery, processing or use of ferrous metals in foundries having melting installations with a total capacity exceeding 5 tonnes, not included in paragraph 3.3.1.	G3
3.4.1 (b)	The melting, including the alloyage, of non-ferrous metals, including recovered products, and operation of non-ferrous metal foundries, with a melting capacity exceeding 4 tonnes per day for lead and cadmium or 20 tonnes per day for all other metals.	G3
3.4.2	The production, recovery or processing of non-ferrous metals, their compounds or other alloys including antimony, arsenic, beryllium, chromium, lead, magnesium, manganese, phosphorus, selenium, cadmium or mercury, by thermal, chemical or electrolytic means in installations with a batch capacity exceeding 0.5 tonnes, not included in paragraph 3.4.1	G3
3.8	The pressing, drawing and stamping of large castings where the production area exceeds 500 square metres.	G3

Activity	Description	Default Complexity (2019)
3.9	Boilermaking and the manufacture of reservoirs, tanks and other sheet metal containers where the production area exceeds 500 square metres.	G2
4.2.2	The manufacture of glass fibre or mineral fibre, not included in paragraph 4.2.1 or 4.3.	G3
4.4	The production of industrial diamonds.	G3
5.1	The manufacture of chemicals in an integrated chemical installation, not included in paragraphs 5.12 to 5.17.	G4
5.12 (a)	The production of organic chemicals, such as simple hydrocarbons (linear or cyclic, saturated or unsaturated, aliphatic or aromatic) (production means the production on an industrial scale by chemical or biological processing)	G4
5.12 (b)	The production of organic chemicals, such as oxygen-containing hydrocarbons such as alcohols, aldehydes, ketones, carboxylic acids, esters, acetates, ethers and mixtures of esters, peroxides, epoxy resins (production means the production on an industrial scale by chemical or biological processing)	G4
5.12 (d)	The production of organic chemicals, such as nitrogenous hydrocarbons such as amines, amides, nitrous compounds, nitro compounds or nitrate compounds, nitriles, cyanates, isocyanates (production means the production on an industrial scale by chemical or biological processing)	G4
5.12 (g)	The production of organic chemicals, such as organometallic compounds (production means the production on an industrial scale by chemical or biological processing)	G4
5.12 (h)	The production of organic chemicals, such as plastic materials (polymers, synthetic fibres and cellulose-based fibres) (production means the production on an industrial scale by chemical or biological processing)	G3

Activity	Description	Default Complexity (2019)
5.12 (k)	The production of organic chemicals, such as surface-active agents and surfactants (production means the production on an industrial scale by chemical or biological processing)	G4
5.13 (a)	The production of inorganic chemicals, such as gases, such as ammonia, chlorine or hydrogen chloride, fluorine, or hydrogen fluoride, carbon oxides, sulphur compounds, nitrogen oxides, hydrogen, sulphur dioxide, carbonyl chloride (production means the production on an industrial scale by chemical or biological processing)	G3
5.13 (b)	The production of inorganic chemicals, such as acids, such as chromic acid, hydrofluoric acid, phosphoric acid, nitric acid, hydrochloric acid, sulphuric acid, oleum, sulphurous acids (production means the production on an industrial scale by chemical or biological processing)	G3
5.13 (c)	The production of inorganic chemicals, such as bases, such as ammonium hydroxide, potassium hydroxide, sodium hydroxide (production means the production on an industrial scale by chemical or biological processing)	G4
5.13 (d)	The production of inorganic chemicals, such as salts, such as ammonium chloride, potassium chlorate, potassium carbonate, sodium carbonate, perborate, silver nitrate (production means the production on an industrial scale by chemical or biological processing)	G3
5.13 (e)	The production of inorganic chemicals, such as non-metals, metal oxides or other inorganic compounds such as calcium carbide, silicon, silicon carbide (production means the production on an industrial scale by chemical or biological processing)	G4
5.15	The production of plant health products and of biocides (production means the production on an industrial scale by chemical or biological processing)	G4

Activity	Description	Default Complexity (2019)
5.16	The production of pharmaceutical products including intermediates (production means the production on an industrial scale by chemical or biological processing)	G4
5.3	The manufacture, by way of chemical reaction processes, of organic or organo-metallic chemical products other than those specified in paragraph 5.2 and not included in paragraphs 5.12 to 5.17.	G4
5.4	The manufacture of inorganic chemicals, not included in paragraphs 5.12 to 5.17.	G4
5.5	The manufacture of artificial fertilisers, not included in paragraphs 5.12 to 5.17.	G4
5.6	The manufacture of pesticides, pharmaceuticals or veterinary products and their intermediates, not included in paragraphs 5.12 to 5.17.	G4
5.7	The manufacture of paints, varnishes, resins, inks, dyes, pigments or elastomers where the production capacity exceeds 1,000 litres per week, not included in paragraphs 5.12 to 5.17	G2
5.8	The formulation of pesticides, not included in paragraphs 5.12 to 5.17	G4
5.9	The chemical manufacture of glues, bonding agents and adhesives, not included in paragraphs 5.12 to 5.17.	G3
6.1 (a)	The rearing of poultry in installations where the capacity exceeds 40,000 places. ('Poultry' shall be construed in accordance with Regulation 2(2) of the European Communities (Poultry and Hatching Eggs) Regulations 2010 (S.I. No. 564 of 2010).)	G0
6.2 (a)	The rearing of pigs in an installation where the capacity exceeds - (a) 750 places for sows	G2

Activity	Description	Default Complexity (2019)
6.2 (b)	The rearing of pigs in an installation where the capacity exceeds - (b) 2,000 places for production pigs which are over 30kg	G2
7.2.1	The treatment and processing of milk, the quantity of milk received being greater than 200 tonnes per day (average value on a yearly basis).	G4
7.3.1	Brewing (including cider and perry production) in installations where the production capacity exceeds 25 million litres per year, not included in paragraph 7.8	G3
7.3.2	Distilling in installations where the production capacity exceeds the equivalent of 1,500 tonnes per year measured as pure alcohol, not included in paragraph 7.8.	G3
7.4.1	The operation of slaughterhouses with a carcass production capacity greater than 50 tonnes per day.	G3
7.5	The manufacture of fish-meal and fish-oil, not included in paragraph 7.8.	G3
7.6	The manufacture of sugar, not included in paragraph 7.8	G4
7.7.1	The disposal or recycling of animal carcasses and animal waste with a treatment capacity exceeding 10 tonnes per day.	G3
7.7.2	The processing (including rendering) of animal carcasses and by-products, not included in paragraph 7.7.1.	G3
7.8 (a) (i)	The treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed from: only animal raw materials (other than exclusively milk) with a finished product production capacity greater than 75 tonnes per day; For the purposes of clause (a), packaging shall not be included in the final weight of the product. Clause (a) shall not apply where the raw material is milk only.	G3

Activity	Description	Default Complexity (2019)
7.8 (a) (ii)	The treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed from: only vegetable raw materials with a finished product production capacity greater than 300 tonnes per day or 600 tonnes per day where the installation operates for a period of no more than 90 consecutive days in any year; For the purposes of clause (a), packaging shall not be included in the final weight of the product. Clause (a) shall not apply where the raw material is milk only.	G3
7.8 (a) (iii)	The treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed from: animal and vegetable raw materials, both in combined and separate products, with a finished product production capacity in tonnes per day greater than: (I) 75 if A is equal to 10 or more; or (II) $[300 - (22.5 \times A)]$ in any other case, where 'A' is the portion of animal material (in percent of weight) of the finished product production capacity. For the purposes of clause (a), packaging shall not be included in the final weight of the product. Clause (a) shall not apply where the raw material is milk only. (See the graph associated with Class 7.8(a)(iii) in the European Union (Industrial Emissions) Regulations 2013 (S.I. No. 138 of 2013))	G3
8.1	The production of paper or cardboard with a production capacity exceeding 20 tonnes per day.	G4
8.3	The preservation of wood and wood products with chemicals with a production capacity exceeding 75 m ³ per day other than exclusively treating against sapstain.	G2
8.4	The manufacture of synthetic fibres, not included in paragraph 5.12.	G3

Activity	Description	Default Complexity (2019)
8.5.2	The dyeing, treatment or finishing (including moth-proofing and fireproofing) of fibres or textiles (including carpet) where the capacity exceeds 1 tonne per day of fibre, yarn or textile material, not included in paragraph 8.5.1.	G2
8.6.1	The tanning of hides and skins where the treatment capacity exceeds 12 tonnes of finished products per day.	G3
8.7	The production of one or more of the following wood-based panels: oriented strand board, particleboard or fibreboard with a production capacity exceeding 600 m3 per day	G4
9.2	The handling or storage of crude petroleum, not included in paragraph 9.3.1 or 9.3.2.	G3
9.3.1	The operation of mineral oil and gas refineries	G5
D1	Deposit into or on to land (e.g. landfill, etc.)	
D2	Land treatment (e.g. biodegradation of liquid or sludgy discards in soils, etc.)	G3
D3	Deep injection (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.)	G3
D4	Surface impoundment (e.g. placement of liquid or sludgy discards into pits, ponds or lagoons, etc.)	G3
D5	Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)	
D6	Release into a water body except seas/oceans	G3
D7	Release to seas/oceans including sea-bed insertion	
D8	Biological treatment not specified elsewhere in this Schedule which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12	G3

Activity	Description	Default Complexity (2019)
D9	Physico-chemical treatment not specified elsewhere in this Schedule which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)	
D10	Incineration on land	G6
D11	Incineration at sea (this operation is prohibited by EU legislation and international conventions)	
D12	Permanent storage (e.g. emplacement of containers in a mine, etc.)	G3
D13	Blending or mixing prior to submission to any of the operations numbered D 1 to D 12 (if there is not other D code appropriate, this can include preliminary operations prior to disposal including pre-processing such as, amongst others, sorting, crushing, compacting, pelletising, drying, shredding, conditioning or separating prior to submission to any of the operations numbered D1 to D12)	G3
D14	Repackaging prior to submission to any of the operations numbered D 1 to D 13	G3
D15	Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced).	
R1	<p>Use principally as a fuel or other means to generate energy: This includes incineration facilities dedicated to the processing of municipal solid waste only where their energy efficiency is equal to or above -</p> <ul style="list-style-type: none"> - 0.60 for installations in operation and permitted in accordance with applicable Community acts before 1 January 2009, - 0.65 for installations permitted after 31 December 2008, using the following formula, applied in accordance with the reference document on Best Available Techniques for Waste Incineration: $\text{Energy efficiency} = (E_p - (E_f + E_i)) / (0.97 \times (E_w + E_f))$ <p>where -</p>	G3

Activity	Description	Default Complexity (2019)
	<p>'Ep' means annual energy produced as heat or electricity calculated with energy in the form of electricity being multiplied by 2.6 and heat produced for commercial use multiplied by 1.1(GJ/year), 'Ef' means annual energy input to the system from fuels contributing to the production of steam (GJ/year), 'Ew' means annual energy contained in the treated waste calculated using the net calorific value of the waste (GJ/year), 'Ei' means annual energy imported excluding Ew and Ef (GJ/year)</p> <p style="text-align: right;">[SI 323 of 2011]</p> <p>'0.97' is a factor accounting for energy losses due to bottom ash and radiation.</p>	
R2	Solvent reclamation/regeneration	
R3	Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes), which includes gasification and pyrolysis using the components as chemicals	G3
R4	Recycling/reclamation of metals and metal compounds	G3
R5	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials	G2
R6	Regeneration of acids or bases.	G2
R7	Recovery of components used for pollution abatement.	G2
R8	Recovery of components from catalysts.	G2
R9	Oil re-refining or other re-uses of oil.	G3
R10	Land treatment resulting in benefit to agriculture or ecological improvement	G1
R11	Use of waste obtained from any of the operations numbered R 1 to R 10	G2
R12	Exchange of waste for submission to any of the operations numbered R 1 to R 11 (if there is no other R code appropriate, this can include preliminary operations prior to	G2

Activity	Description	Default Complexity (2019)
	recovery including pre-processing such as, amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	
R13	Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage (being preliminary storage according to the definition of ‘collection’ in section 5(1)), pending collection, on the site where the waste is produced)”.	

