

5.2.2
Levels I, II
and III

Certified organisations shall have procedures and records in place to ensure and demonstrate that segregation of ProTerra certified material is maintained. Procedures shall be developed, implemented and maintained and shall include GMO testing, records of flushing or cleaning for product change in non-dedicated sites and inspection checklist of trucks and other conveyances.

Guidance: Applicability of the evidence demonstrating that segregation is maintained shall be proportional to the type and size of the operation, particularly in the case of smallholders. For example, at farm level in general, only a sampling plan and strip test procedures and records may be required. For elevators and industrial plants (Level III), additional PCR sampling and testing protocols and results will be required, linked to production periods and lots. Certified organisations shall justify, and document the approach used. Certified organisations must follow the ProTerra Guidance on GMO testing and sampling. Certified organisations are expected to be able to demonstrate compliance with such Guidance.

5.2.3
Level I

Certified farms shall take measures (e.g., staggered planting times, planting of distinguishable varieties, instituting physical barriers, creating buffer planting zones, etc.) to avoid cross-contamination associated with potential pollen drift from nearby GMO sources.

Guidance: In the case of smallholders that are part of the supply chain of industrial processors, the implementation of this indicator shall be supported by the processor.

PRINCIPLE 6: **Pollution and waste management**

Minimising the pollution of the environment should be a focal point of sustainable practices associated with the food and feed supply chain. This Principle aims to support certified organisations in using methods to store, handle and dispose of waste and hazardous materials that do not harm the natural environment or local communities.

6.1

Appropriate management of hazardous waste and pollutant materials

6.1.1

Levels I, II
and III

CORE - Certified organisations shall segregate, handle, store and dispose of hazardous waste properly. Management of hazardous waste shall at least comply with national laws relevant to the location of the certified operation, as stated in Principle 1 of this Standard. Measures are taken to reduce or recycle waste as much as possible. In countries where there are no local laws and/or regulations concerning pollution and waste management, organisations should consider applying World Bank and IFC guidelines.

Guidance: Hazardous waste include but are not limited to used batteries, fuel, fluorescent lamps, tyres, and lubricant oil. For pesticides residues refer to indicators 9.7.8.

In the case of smallholders that are part of the supply chain of industrial processors, the implementation of this indicator shall be supported by the processor.

6.1.2

Levels I, II
and III

CORE - Certified organisations shall segregate, handle, store and dispose of pollutant materials properly, having appropriate facilities to prevent spills. Management of pollutant materials shall at least comply with national laws relevant to the location of the certified operation, as stated in Principle 1 of this Standard. Measures are taken to reduce or recycle waste as much as possible. In countries where there are no relevant local laws and/or regulations, organisations should apply World Bank and IFC guidelines.

Guidance: Pollutant materials include but are not limited to oil derivatives and fuels. Appropriate facilities include spill containment basins, oil-water separation systems, machinery filling stations and washing stations built to avoid soil and groundwater contamination.

In the case of smallholders that are part of the supply chain of industrial processors, the implementation of this indicators shall be supported by the processor.

6.1.3
Levels I
and III

CORE - Certified organisations shall discharge sewage /effluents in a manner that does not cause water pollution and does not contaminate the soil or crops with chemicals, heavy metals, by-products, excess nutrients or pathogens. Raw sewage shall not be used to irrigate crops.

Guidance: If sewage is to be used or otherwise incorporated back into any production system, it must be treated to ensure that water that is released back into the environment is safe.

In the case of smallholders that are part of the supply chain of industrial processors, the implementation of this indicator shall be supported by the processor.

6.1.4
Levels I
and III

CORE - Certified organisations shall ensure that there is no run-off of wastewater, oil and oil spills, chemical and chemical residues, minerals and organic substances.

6.2

Management and appropriate disposal of non-hazardous waste

6.2.1
Levels I
and III

CORE - Non-hazardous waste shall be segregated and, where appropriate, minimised, recycled or reused. If recycling or reuse is not possible, a legal means of treatment and final disposal shall be employed.

Guidance: In the case of smallholders that are part of the supply chain of industrial processors, the implementation of this indicator shall be supported by the processor.

6.2.2

Levels I
and III

CORE - Certified organisations shall manage biological waste such as manure, straw, crop residues, food scraps, and processing by-products, among others, in an appropriate way to avoid pollution and/or to prevent these from becoming a source of pathogenic contamination or pest harbouring. Management of these waste shall at least comply with national laws relevant to the location of the certified operation, as stated in Principle 1 of this standard. In countries where there are no relevant local laws and/or regulations, organisations should apply World Bank and IFC guidelines.

Guidance: In the case of smallholders that are part of the supply chain of industrial processors, the implementation of this indicator shall be supported by the processor.

6.2.3

Level I

In cases where residues are returned to the agricultural fields as either mulch or compost to build soil organic matter, or as fertiliser, these materials must be treated, where applicable, to assure the absence of chemical or biological contaminants.

Guidance: When using raw manure as fertiliser, composting is recommended before application to fields.

In the case of smallholders that are part of the supply chain of industrial processors, the implementation of this indicator shall be supported by the processor.

6.2.4

Levels I
and III

CORE - Waste shall not be incinerated or burned, except when required for phytosanitary purposes, or in cases when it is burned for energy or heating or used for biogas/oil production.

Guidance: Burning for generation of biofuels, for energy production must comply with local and/or national regulations. In countries where there are no local laws and/or regulations, organisations should apply the World Bank and IFC guidelines.

In the case of smallholders that are part of the supply chain of industrial processors, the implementation of this indicator shall be supported by the processor.

6.3 Control of atmospheric pollution

6.3.1 Level III

CORE - Certified organisations shall implement systems and procedures to ensure that concentrations of contaminants emitted through pipes, chimneys, boilers, ovens, incinerators, and electricity generators do not exceed established limits set by local, regional and national laws, or by individual authorisations delivered by competent national, regional or local authorities. In countries where there are no local laws and/or regulations, organisations should consider applying World Bank and IFC guidelines.

Guidance: Certified organisations shall document the performance of these control systems.

PRINCIPLE 7: Water management

Water is a scarce resource in many parts of the world. It is also a resource under constant threat of contamination and misuse. This Principle aims to ensure the responsible use of water by preserving the quality and quantity of local water resources and protecting them from contamination.

7.1 Conservation of natural water resources