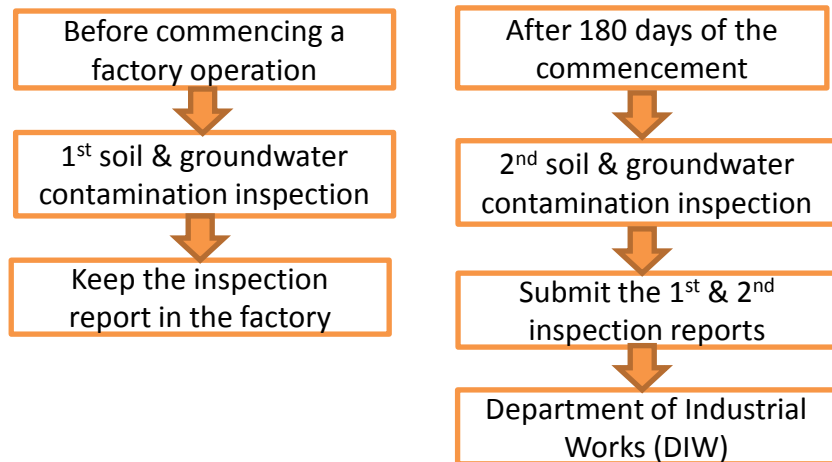
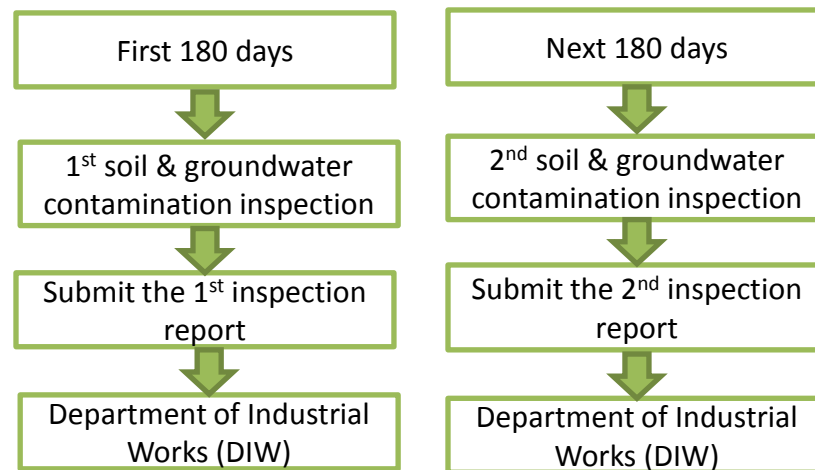


Guideline to the Draft Notification of Ministry of Industry
Criteria and Inspection of Soil and Groundwater Contamination in Factory Area B.E.

New Factory



Existing Factory



Next Inspections

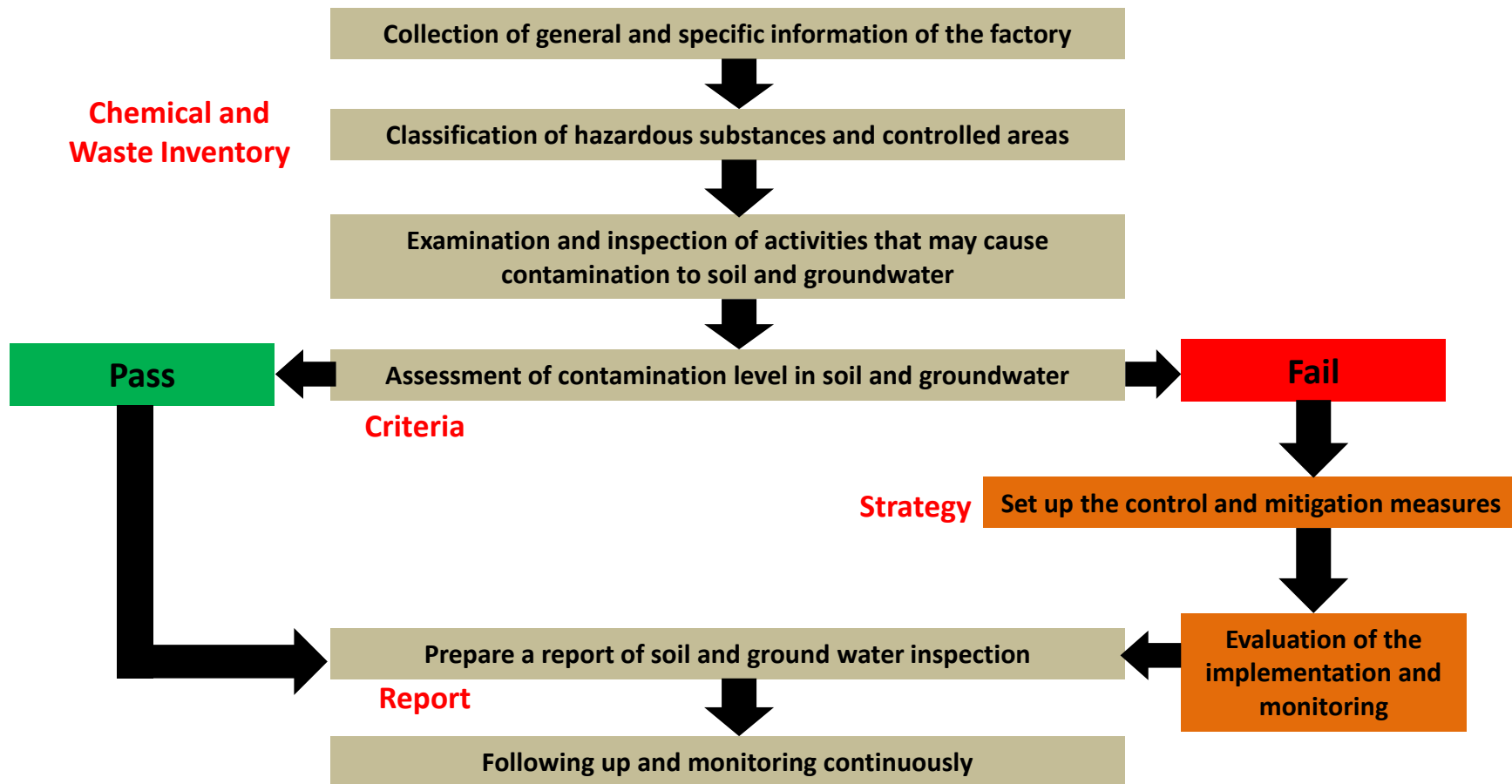
Soil = every 3 years

Groundwater = every year

However, the inspection may be required more often if there are concerns over environmental and public health, which will be considered and determined by the competent office on a case by case basis.

**Guideline to the Draft Notification of Ministry of Industry
Criteria and Inspection of Soil and Groundwater Contamination in Factory Area B.E.**

Implementing Framework



**Guideline to the Draft Notification of Ministry of Industry
Criteria and Inspection of Soil and Groundwater Contamination in Factory Area B.E.**

Implementing Guideline

What shall the factory be prepared?

1. Preparation of general information of the factory, e.g. factory registration number, type and operation period, topography, site area, operating history of the site and adjacent sites, buried materials and utility system, historical events on site such as flood, chemical leak/accident, etc. boring log, building foundation details, employees' health records, previous environmental quality monitoring.

2. Preparation of information on chemicals, raw materials, additives, products and wastes, e.g. classification of hazardous substance according to International Agency for Research on Cancer (IARC), Integrated Risk Information System (IRIS), Ministerial Notification on Industrial Waste Disposal, Safety Data Sheet (SDS); quantity and storage method, disposal method, leak management or protection as well as other monitoring data.

3. Preparation of production process information, e.g. mass balance, production zone management, machine maintenance, emergency protection plans and procedures, waste collection, historical management information.

Guideline to the Draft Notification of Ministry of Industry Criteria and Inspection of Soil and Groundwater Contamination in Factory Area B.E.

Implementing Guideline

Installing the Monitoring Wells

Monitoring wells shall consist of 2 types of well:

1. Up Gradient Well – as a background well
2. Down Gradient Well – as a monitoring well

Soil and Groundwater Sampling

- Method of sampling is in accordance with the “DIW’s Manual of Soil and Groundwater Quality Inspection” or other methods that are internationally well-accepted.
- Representative samples shall be collected as much as possible and in sufficient portions that can truly assess the contamination level of the site.
- Samplings shall be taken down stream and up stream based on the groundwater flow direction and shall cover all the areas likely to contamination.
- Sampling points shall be in associate with the storage areas of chemicals, raw materials, fuels, wastes including production process and pollution management systems, for instance.

Guideline to the Draft Notification of Ministry of Industry Criteria and Inspection of Soil and Groundwater Contamination in Factory Area B.E.

Implementing Guideline

Assessment of Contamination Level

- Calculation of soil and groundwater contamination criteria of the site
- Taking samples of soil and groundwater to analyze contaminants and their contamination levels of the site
- Compare the concentration of contaminants between the calculated criteria and the sampling

Set up Control and Mitigation Measures

- Propose the measure to control and mitigate the contaminations
- Implement the measures to ensure that the contamination of soil and groundwater is well complied to the criteria
- Prepare the inspection report of soil and groundwater quality