**IMPACT ON THE ENVIRONMENT Document Reference C12.1**

The prevention of accidental releases from the activity is achieved through good management and handling techniques, principally to avoid leaks and spills of preservative materials, and by maintaining a good level of housekeeping.

Possible accidental releases from the installation, in terms of the nature of these accidental releases, the likely environmental hazard and the subsequent environmental risk are as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Foreseeable emissions** | **Likelihood of occurrence** | **Severity of impact** | **Risk score** |
| Preservative leak from high pressure treatment vessel | Possible   * Vessel is maintained in good condition | Low   * Concrete bund will provide sufficient containment | **1**  **Trivial** |
| Additive spillage during IBC delivery | Possible   * IBCs are sealed and robust. * IBCs are sited adjacent to the containment bund | Medium   * Leak will be contained in spill containment bund and the main plant bund forms a back up to this. | **2**  **Generally Acceptable** |
| Preservative spillage during bulk tanker delivery | Possible   * Delivery point and connections are situated in an area that drains back to the containment bund | High   * Larger quantities involved. * Low probability of reaching drains as the connections will be in the plant area. | **3**  **Moderate** |
| Additive leak during IBC storage | Possible  IBCs are sealed and robust. | Low   * IBCs stored within bunded area. | **1**  **Trivial** |
| Preservative leak from bulk storage | Possible   * Storage tanks is double skin and drains back to containment bund. | Low   * Capacity of bund sufficient to hold all storage tanks. | **1**  **Trivial** |
| Preservative drag-out from contained area on forklift wheels | Likely   * Fork truck not fully dedicated to timber treatment area. | Low   * Very small quantity of contamination likely to be moved on vehicle wheels. Data from other sites have shown no actives detected from modern preservatives. | **2**  **Generally Acceptable** |
| Preservative dripping from treated timber outside containment area | Possible   * Treated timber overhanging containment area. | Medium   * Small quantity of contamination. * All storage is within contained area so very low probability | **2**  **Generally Acceptable** |

The combination of plant maintenance, good management and handling practices coupled will ensure that the risk of the environmental hazards actually occurring through unforeseen or uncontrolled emissions remain as low as possible.