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| **Table B.5 SuDS health and safety risk assessment checklist** |
| **Site/system overview** |
| Site ID |  |
| Asset ID |  |
| Location |  |
| SuDS component |  |
| Assessment date |  |
| Date of next assessment |  |
| **1 Establish context** |  |
| General description of component and its operation |  |
| **2 Identify potential hazards** | Are hazards present? (Y/N) |
| Drowning or falling through ice in winter | If YES complete Section 3 |
| Slips, trips and falls | If YES complete Section 4 |
| Entry into pipes or confined spaces (note this is for inadvertent public access; follow relevant legislation and guidance for worker access) | If YES complete Section 5 |
| Water quality – health risk | If YES complete Section 6 |

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| **3 Drowning or falling through ice in winter** |  |  |
| **Consider factors that might affect:*** **the likelihood of people entering the water/accessing the ice**
* **the potential consequence of entering the water/accessing the ice**
 | **Summary of influence of factor on likelihood of entry/access, including** **justification****(consider for children < 5 years, children ≥ 5 years, adults)** | **Summary of influence of factor on consequence of entry or access, including justification (consider for children < 5 years, children ≥ 5 years, adults)** |
| **Environmental factors** |
| Proximity to populated areas: schools, inns, retail/tourism, picnic areas, play areas, car park, roads, especially attractive features likely to be visited |  |  |
| Features allowing or encouraging access (eg paths) |  |  |
| Physical accessibility of proposed drainage feature: considerintended use and inadvertent access (including of small children) |  |  |
| Visibility and natural surveillance of proposed drainage features |  |  |
| **Behavioural factors** |
| Category and volume of expected users: swimmers, anglers, walkers, drivers, specialist water users, General public, dog walkers, teenagers, accompanied/unaccompanied children |  |  |
| Nature of development (housing, commercial, industrial etc) |  |  |
| Any known existing risks (eg records of accidents) posed by water/drainage features at or close to the site? |  |  |
| **Design factors – water’s edge** |
| Type and nature of water-edge planting |  |  |
| Definition of water edge and nature of ground (eg soft/hard) |  |  |
| Natural obstacles, barriers/fencing |  |  |
| Height of edge above water |  |  |
| Gradient and extent of slopes above, at and below water level |  |  |

**Note** For definition of levels, see **Table 36.2 in Chapter 36**.

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| **3 Drowning or falling through ice in winter** |  |  |
| **Consider factors that might affect:*** **the likelihood of people entering the water/accessing the ice**
* **the potential consequence of entering the water/accessing the ice**
 | **Summary of influence of factor on likelihood of entry/access, including justification (consider for children < 5 years, children ≥ 5 years, adults)** | **Summary of influence of factor on consequence of entry or access, including justification (consider for children < 5 years, children ≥ 5 years, adults)** |
| **Design factors – water body** |
| Water depth profile |  |  |
| Water surface area |  |  |
| Clarity |  |  |
| Underwater obstacles or traps |  |  |
| Potential currents, velocities |  |  |
| Potential increase in depth of water and rate of rise |  |  |
| Potential for ice formation and significant depth of water below in winter |  |  |
| **Public education** |
| Signage |  |  |
| Community engagement strategies |  |  |
| Local education strategies (eg schools) |  |  |
| **Overall assessment of likelihood of entry/access and consequences** | **Likelihood** | **Consequences** |
| Children < 5 years Children > 5 yearsAdults |  |  |

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| **Summary of section 3 risk assessment for drowning or falling through ice** |
| **Group** | **Likelihood of entry to water** | **Likely consequence of entry to water** | **Overall level of risk posed by the design1** | **Further mitigation measures required** | **Action date** | **Final level of risk1** |
| Children < 5 years Children > 5 yearsAdults |  |  |  |  |  |  |

**Note** For definition of levels, see **Table 36.2 in Chapter 36**.

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| **4 Slips/trips/falls** |
| **Factors that might affect likelihood of people slipping/tripping/falling** | **Summary of influence of factor on likelihood of slip/ trip/fall, including justification (consider for children < 5 years, children ≥ 5 years, adults)** | **Summary of influence of factor on consequence of slip/ trip/fall, including justification (consider for children < 5 years, children ≥ 5 years, adults)** |
| **Design factors – inlets and outlets or channels** |
| Headwall or channel location |  |  |
| Headwall height or channel depth and width |  |  |
| Slope of headwall or channel profile |  |  |
| Channels – profile and risk of freezing water |  |  |
| **Design factors – surfaces** |
| Level changes |  |  |
| Surfacing materials |  |  |

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| **Summary of section 4 risk assessment for slips/trips/falls** |
| **Group** | **Likelihood of slips/ trips/falls/other injury** | **Likely consequence of slips/trips/falls/other injury** | **Overall level of risk posed by the design1** | **Further mitigation measures required** | **Action date** | **Final level of risk1** |
| Children < 5 yearsChildren ≥ 5 yearsAdults |  |  |  |  |  |  |

**Note**

For definition of levels, see **Table 36.2 in Chapter 36**.

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| **5 Entry into pipes or confined spaces (Note: This risk assessment covers inadvertent access by the public. Where specific access is required by workers the requirements of relevant health and safety legislation and guidance should be followed.)** |
| **Factors that might affect likelihood of people entering pipes or confined spaces** | **Summary of influence of factor on likelihood of entry into pipes or confined spaces, including justification (consider for children < 5 years, children ≥ 5 years, adults)** | **Summary of influence of factor on consequence of entering pipe or confined space, including justification (consider for children < 5 years, children ≥ 5 years, adults)** |
| **Design factors – inlets and outlets** |
| Pipe diameter |  |  |
| Are grilles provided? |  |  |
| **Design factors – chambers** |
| Depth of chamber |  |  |
| Is access possible? |  |  |

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| **Summary of section 5 risk assessment for entry into pipes/confined spaces** |
| **Group** | **Likelihood of entry into pipes/ confined spaces** | **Likely consequence of entry into pipes/ confined spaces1** | **Overall level of risk posed by the design** | **Further mitigation measures required** | **Action date** | **Final level of risk1** |
| Children < 5 yearsChildren ≥ 5 yearsAdults |  |  |  |  |  |  |

**Note**

For definition of levels, see **Table 36.2 in Chapter 36**.

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| **6 Health issues** |
| **Factors that might affect likelihood of people suffering from ill health due to SuDS water quality** | **Summary of influence of factor on likelihood of poor health, including justification (consider for children < 5 years, children ≥ 5 years, adults)** | **Summary of influence of factor on consequence of resulting ill health, including justification (consider for children < 5 years, children ≥ 5 years, adults)** |
| **Pollution treatment strategy** |
| Level of contamination of publically accessible water |  |  |
| Likely contamination from rat urine |  |  |
| Likely contamination from dog or bird fouling |  |  |
| Likelihood of toxic algal blooms |  |  |
| Likelihood of vectors (organism which carries disease-causing microorganisms from one host to another) |  |  |
| Public accessibility to any sediment accumulation zones |  |  |
| **Public education and risk management** |
| Signs |  |  |
| Community engagement strategies |  |  |
| Local education strategies (eg schools) |  |  |
| Litter management and control |  |  |
| Dog fouling management and control |  |  |

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| **Summary of section 5 risk assessment for health issues** |
| **Group** | **Likelihood of ill health** | **Likely consequence of ill health** | **Overall level of risk posed by the design** | **Further mitigation measures required** | **Action date** | **Final level of risk** |
| Children < 5 yearsChildren ≥ 5 yearsAdults |  |  |  |  |  |  |

**Note**

For definition of levels, see **Table 36.2 in Chapter 36**.