11 - SITE WASTE FLOWS - Sinkfall Recycling July 2024 Contact: D Baldwin Recogen 07785 352993

The Site Plan shows how the 'central' yard provides a hub from which wastes directly move to selected transfer or treatment area. Fig

This is efficient and provides the flow of material into and then out of each building depending on the type of material. It also means that the majority of the materials treatments are within one area.

The soils and aggregates are external activities and these are kept to the perimeter of the site; so as not to impinge on other activities or interrupt traffic flow.

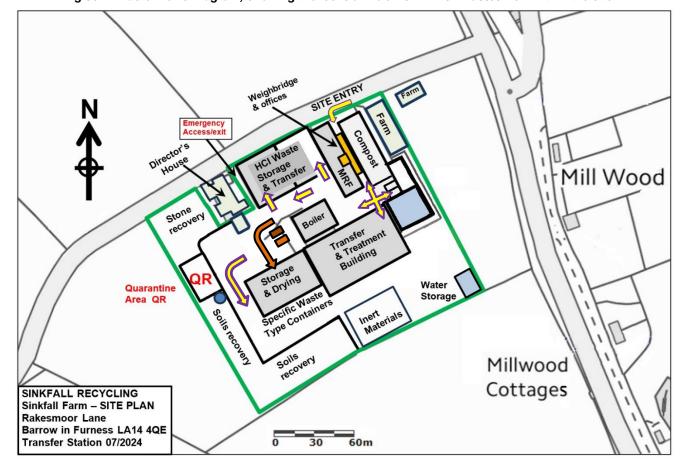


Fig 5c- 1 Waste Flows Diagram, showing the 'central' hub from which wastes flow within the site...

Waste Flows

- Waste Movements are minimised by the site entailing a central open yard area (hub) with activities and storage areas, (except soils) surrounding the central hub.
- Materials for sorting and short term storage are held in the northern Household, Commercial and Industrial Transfer Station area.
- Materials for sorting short term storage and treatment are held in the new Household, Commercial and Industrial Transfer and Treatment Building.
- The storage of Wood is near to where it is offloaded and sorted, and then storage is near to the point of use (boiler building).
- Metals storage is in the northern Transfer area; this material is moved to the sister site for the Metals Recycling activity.
- Quality stone is kept separated and stored nearer to the house.

- Soils and aggregates that are bulky, and formed as large volume stockpiles can be
 processed quickly, but are stored at the periphery of the site for ease of access and so that
 these do not form a blockage or hindrance to the movement of more technical materials
 that need to be stored on paved areas.
- A series of waste containers is available on the southern side of the drying building, for safe, secure, dry and pest-proofed containerised storage of materials such as plasterboard, asbestos, clinical waste, food-waste, chemicals, batteries and hazardous wastes. These materials are not for treatment, and storage is only in small quantities.
- The QUARANTINE Area [labelled QR] is located for ease of access for depositing hot
 materials, and for fire-suppression. It is in an open area away from buildings. It has a
 drainage system for fire-water recovery. Lorries or trailers parked in this area can be readily
 relocated in the event of the quarantine area being required.

WEIGH-WEIGH-MRF and Baling Shed/ Kerbside Recyclables BRIDGE Glass Storage Bunker **BRIDGE** HCI Waste WFIGH-Market WFIGH-Transfer with/without 2. Storage. No Treatment Various Waste BRIDGE **BRIDGE** WFIGH-Transfer & Treatment WEIGH-Market **HCI** Waste Recyclables -3. Mixed Waste **BRIDGE** Building for sorting bulked or baled **BRIDGE** Residual Waste -WEIGH-Disposal **BRIDGE** bulked WEIGH-Composting Reception. PAS100 & CQP WEIGH-Market Household / Municipal (End of Waste) **BRIDGE BRIDGE** etc. Green Waste Preparation & Process WEIGH-Impermeable Paved Restoration WEIGH-End Use Mixed Waste 5. **BRIDGE** area - Waste Mixing Material **BRIDGE** Segregated Metals WEIGH-Market WEIGH-6. Mixed Metals Transfer (No Treatment) BRIDGE Sorting and Segregation Bulked **BRIDGE** WFIGH-Fnd Use Sludge as Drilling Muds WEIGH-Dewatering/ separation Reclamation **BRIDGE BRIDGE** WWTW Market Aggregates Recovery WEIGH-Store and Treat by Aggregates WEIGH-8. **BRIDGE** separation & screening Protocol **BRIDGE** from Road sweepings Store & Treat- Crushing, Aggregates WEIGH-Market Soils and Aggregates WEIGH-9. BRIDGE **BRIDGE** Protocol screening mixing etc. HCI WEES including Segregation of WEIGH-Market 10. WFIGH-Waste Transfer & Treat **BRIDGE** Components, bulk Refrigeration Equipment BRIDGE (de-gassed by 3rd party) HCI Wood and Re-use, WEIGH-Market WEIGH-Reclamation, sorting & 11. **BRIDGE** treatment inc. drying animal bedding **BRIDGE** paper/card WEIGH-Market 12. Wood WFIGH-Reclamation, sorting & **BRIDGE** treatment inc. drying BRIDGE WEIGH-Self-use, Biomass fired 13. Waste Wood WEIGH-Reclamation, sorting & **BRIDGE** treatment inc. drying boiler on site **BRIDGE** WEIGH-Collector/ Clinical Waste WEIGH-14. Accumulate and secure **BRIDGE** BRIDGE Disposal storage. No Treatment Collector/ WEIGH-**HCI Hazardous Waste** WEIGH-Accumulate and secure 15. **BRIDGE** Recovery **BRIDGE** storage. No Treatment. (includes oil, paints etc) WEIGH-Collector/ HCI Hazardous Waste WEIGH-16. Secure storage. **BRIDGE BRIDGE** Disposal Asbestos No Treatmen Recovery WEIGH-Animal By Product WEIGH-Secure storage. 17. AD/IVC waste (Catering Waste) **BRIDGE** No Treatment. BRIDGE Recovery WEIGH-Animal By Product WEIGH-Secure storage. **BRIDGE** AD/IVC waste (Cat 3 Waste) BRIDGE No Treatment.

Fig. 5c- 2 Waste Flows Schematic, showing the pathways of the wastes through the Sinkfall site.

Note: Some of the above 'process schematics' are grouped within the Permit, under headings such as: Waste Transfer, Waste Treatment, Aggregates etc. Similarly, there will be sub-processes entailing the sorting and segregation of materials that then follow a parallel route similar that described. All wastes, on their inward route or outward route, are weighed and recorded at the weighbridge.