

## Appendix 7c

### Controls and monitoring of emissions for environmental permit

How we control and monitor emissions from our activities that may cause pollution.

Wastewater Treatment Plant Area		
Leaks from containers	Yes / No	Comments
You must prevent leaks or accidental release of liquids that could cause pollution from tanks, sumps, containers and bunds.	Yes	Chemicals stored in drums / IBCs inside sludge dewatering building and or placed on bunded drip trays
Bunds are walls built around tanks to capture anything that leaks from them.	Yes	Self explanatory
Piping and drainage		
You must design your site so that leaks from underground structures are prevented and any leaks can be detected quickly.	Yes	Sumps on maintenance inspection schedules
You must keep a record of the route of any underground drains or pipework on your site.	Yes	Site drainage plan up to date
If you use oil in your operations you must fit and maintain oil separators to surface water drainage systems to prevent discharges being contaminated by oil.	Yes	Yes - 2 storm by pass interceptors on site drainage - no changes to site drainage
Containing emissions		
You do not need to follow this guidance on bunding if your storage tanks, treatment tanks and underground pipework hold, treat or transport sewage at sewage treatment works or sewerage networks.		WWTP treats organic wastewater from poultry processing - same sewage parameters as domestic wastewater. WWTP area is bunded in any case.
You must provide containment (bunding) for underground pipework, sumps and storage vessels. You may also need to fit a leak detection system, for example if you're carrying out your activity in a groundwater source protection zone.	Yes	WWTP area is fully bunded and for Phase 2 a new concrete bund to contain at least 110% of largest tank which is greater than 25% of total tank contents. Tanks have high level alarms and interlocks.
You must keep a list of any underground sumps or storage vessels.	Yes	Site drainage plan up to date
Your sumps and bunds must be:		
• waterproof	Yes	Concrete - new / recent and in good condition
• resistant to any materials you're going to store in them	Yes	No corrosive chemicals used in large quantities - wastewater pH in neutral region
You must make sure sumps and bunds do not become contaminated or blocked as this may cause them to leak.	Yes	Maintenance and inspection procedures in place for sumps and bunds
You must:		
• check that sumps and bunds are working correctly, for example that there are no cracks	Yes	Maintenance and inspection procedures in place for sumps and bunds
• hydraulically test any sump or bund if you're worried it is not working correctly	Yes	Maintenance and inspection procedures in place for sumps and bunds
• fit a high-level probe to any sumps or bunds that you cannot check with an alarm to alert you before waste begins to escape containment	Yes	WWTP is supervised and CCTV installed. PLC data monitors tank levels
Your bunds must also have a capacity larger than both of the following:		CIRIA guidance refers to a minimum of 110% of largest tank
• 110% of the largest tank the bund is protecting	Yes	Based on at least 110% of largest primary tank
• 25% of the combined volume of all the tanks the bund is protecting	No	Based on at least 110% of largest primary tank
Use the maximum volume that a tank can physically hold when calculating capacity. Do not use the volume a tank is designed to hold.	Yes	Based on largest tank capacity - raw effluent primary tank
Your bunds must also:		
• have no outlets (for example drains or taps)	Yes	All bunds checked for any gaps around service ducting. No drains in bunds
• drain to a blind (completely enclosed) collection point	Yes	
• have self-contained pipework that is separate from the container pipework	Yes	Entire WWTP area is bunded
Your bunds must have tanker connection points within the bund. If that's not possible, the tanker connections points must be contained to capture any leaks.	Yes	Only applies to chemical tanks and sludge tank - all contained with WWTP area bund
If you need to use your bund to contain a leak you must make sure it's emptied to restore maximum capacity.	Yes	Bunded area drains into WWTP reception pit and is recirculated for treatment