

Saputo Dairy UK Davidstow Environmental Management System	Document Number:	EMS-08	Document Title:	Spill Procedure	
	Revision:	2	Owner:	Manager, Environment and Sustainability	
	Revision Date:	30/11/22	Approver:	Sarah Magor	

1. Purpose

To outline how spills which may occur through work activities and are managed. Spills have a potential to impact the receiving surface waters of the River Inny or impact the operation of Water Processing Facility (WPF). This procedure outlines the drain specifications and immediate actions in responding to a spill.

2. Responsibilities

The Environment and Sustainability Manager is responsible for the implementation of this procedure and training of all relevant operators along with Department Managers. The Environment and Sustainability Manager is responsible for the review of this procedure. This SOP should be reviewed every two years, unless a modification or change is made to the plant prior to that.

3. Procedure

1. Health and Safety

Always consider Health and Safety risks when dealing with a spill; ensure correct Personal Protective Equipment is worn. If in doubt about potential risks contact your Departmental Manager.

2. Drain Control

During the initial design or redevelopment of production areas the need to provide suitable drainage should be considered and to ensure all drains from internal areas run to the Water Processing Facility.

Drain blockers can be used to minimise/stop spills from entering the drainage systems.

Spills **must** be directed to **RED** effluent drains in the yard areas and not the **BLUE** external yard drains designed primarily to remove surface (rain) water.

The Administration Building has a separate drainage system leading to the domestic waste treatment plant situated at the Water Processing Facility. **Green**

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Signs showing colour coding for drains are displayed around the site.

Drains are colour coded as follows:

Effluent Drains - RED



Surface Water - BLUE



Domestic Waste - GREEN



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3. Spill Kits

Spill kits are located in areas of high risk of activity or storage of hazardous chemicals and also there is a potential risk of the spill reaching and polluting the River Inny and/or impacting the operation of the WPF. Please see maps below for where spill kits are located on the main site and the WPF.

There are several types of spill kits available on site each spill kit includes instructions for use, drainage colour coding and emergency spillage procedure.

Each spill kit is secured by a numbered tie, to access the spill kit remove the tie and once spill has been cleaned up, please return this tie to the Environment Team to re secure the spill kit.

Please take note of spill kit used to enable complete replenishment of the spill kits. Spare spill kit is kept in the Barn.

- Drain Protection**



Polyurethane Drain Cover



- Spill Kit**



- Hazardous waste bags for disposal**



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4. Potential pollutants

Spills into a surface water drain (**BLUE**) or to the ground have a potential to reach the River Inny which could result in pollution.

Typical pollutants are:

- Milk, Cream, Whey, GOS and wash waters from process
- Diesel, oils, kerosene, hydraulic oils
- Concentrated or dilute chemicals
- Gases - Ammonia from Chilled Water Compressors
- Contaminated fire water
- Sediment

5. Spill to a **BLUE surface water drain or ground**

Before you start

Is it safe to tackle?

Do you know what dealing with?

Have you got the correct PPE to tackle the spill?

Spill clean up

1. Immediately prevent any further spill if safe to do so e.g. close valves, shut off feeds etc.
2. Use drain covers to prevent the spill entering drains.
3. Contain the spill if safe to do so using Spill Kits.
4. If total containment is not possible, redirect any non fuel spill to the nearest effluent drain (**RED**) and inform the Duty Manager / Shift Team Lead.
5. Then follow the steps below.

Escalating a large spill- (5 litres or more)

1. Carry out the above steps and contact the Duty Manager / Shift Team Lead.
2. The Duty Manager / Shift Team Lead should arrange for the flow to be redirected into the Water Processing Facility divert tank or the lagoon and inform a member of the Senior Leadership Team if appropriate.
3. If containment is not possible or there is no **RED** effluent drain available in the area, the Duty Manager or Shift Team Lead **must** ensure that the outlet valves on the lined surface water ponds have closed and should arrange to close the surface water Attenuation Pond (first and second points of containment) and dam the river by the in-feed pipe to the Water Processing Facility if necessary (third point of containment).

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4. The Duty Manager / Shift Team Lead should arrange for contaminated surface drain lines to be flushed with clean water to the lined surface ponds then water in the ponds pumped to the Water Processing Facility or contact the liquid waste disposal contractor to arrange pumping out of the surface water ponds, the unlined Attenuation Pond and the River Inny at the Water Processing Facility as necessary.
5. The Duty Manager / Shift Team Lead should inform Senior Management who will notify the Environment Agency if contaminated surface water has discharged to the river. – Emergency Telephone Number 0800 80 70 60

The information they will require is:

- Company name
- Contact name and telephone number
- Date and time of incident
- Nature of spillage – Milk, Chemical, Oil etc.
- Estimated volume lost to drain or ground
- Action taken to contain spillage
- Name of receiving river (Inny)

6. The site must carry out any instructions given by the Environment Agency
7. The Duty Manager / Shift Team Lead must record details of the incident on an Unplanned Event Report form. The Engineering Manager will be responsible for monitoring and reducing any effects of the spill on the Water Processing Facility.
8. If a spill kit has been used, contact the Environmental team to arrange hazardous waste disposal.

6. Alarm activated on Attenuation ponds



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The upper and lower attenuation ponds are automatically controlled by internal telemetry and will close on detection of out of spec parameters, pH and turbidity, oil and will automatically raise an alarm to the WPF team who will then investigate the issue.



If an alarm is activated from either of the lined surface water pond flumes it will automatically raise an alarm to the WPF team who will then investigate the issue.

1. Ensure that the outlet valve on the lined pond has closed to contain any potentially contaminated water.



2. Take a sample of water from the pond for pH analysis and visual inspection.
3. If the pH result is between 6 – 9 and the water is visually clean, re-open the lined pond outlet valve to allow the water to flow into the unlined attenuation pond.
4. If the pH result is less than 6, or greater than 9 or visually contaminated, pump the water into the effluent drain overflow pipe in the pond.
5. If the Water Processing Facility is unable to receive the water contact the liquid waste contractor to arrange disposal.

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6. Continue sampling and removal of the contaminated water until within the pH range and visually clean then re-open the outlet valve and allow the water to flow into the unlined attenuation pond for normal discharge.

7. Spill at the Water Processing Facility

1. Immediately prevent any further spill.
2. Contain the spill in bunded or on hard standing concrete areas.
3. If containment is not possible attempt to direct the spill towards the site internal drain system.
4. If the spill flows onto a grassed area position the surface water soak away stop plate in the closed position and insert a bung in the groundwater discharge pipe to the river.
5. Contact a liquid waste disposal contractor, for example CSG, to assist in spill removal and area cleaning.
6. The Service Engineer / Engineering Team Leader should inform Senior Management who will notify the Environment Agency if the spill has discharged to the river. – Emergency Telephone Number 0800 80 70 60

The information they will require is:

- Company name
- Contact name and telephone number
- Date and time of incident
- Nature of spill – Effluent
- Estimated volume lost to ground or river
- Action taken to contain spill.
- Name of receiving river (Inny)

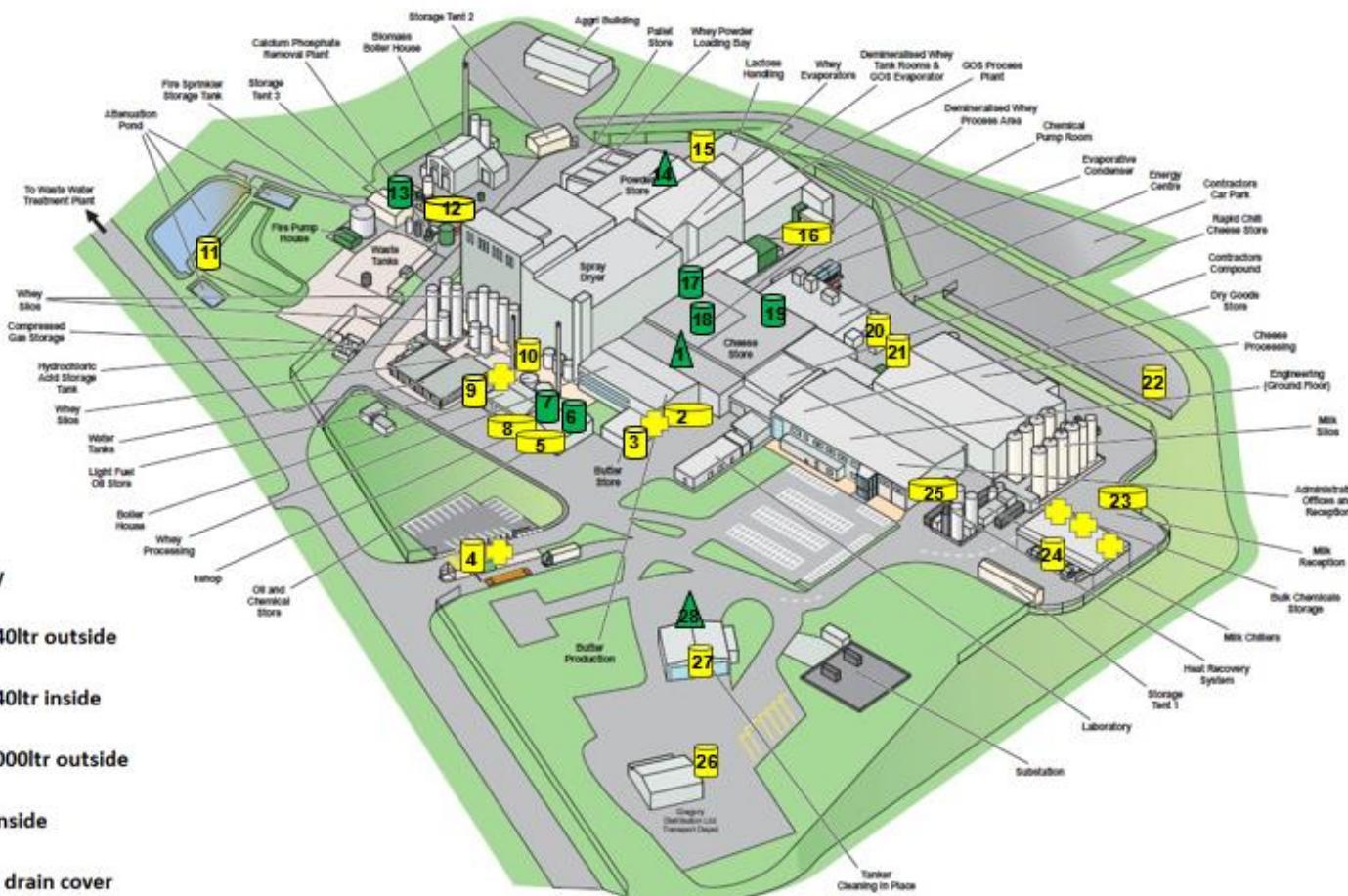
The site must carry out any instructions given by the Environment Agency

7. The WPF Operations Manager should record details of the incident on an Unplanned Report form. The WPF Operations Manager will be responsible for monitoring and reducing any effects of the spill on the Water Processing Facility.

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Spill Kit Locations

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