EPA Application Form

7.7 - Discharges to Storm Water - Attachment

Organisation Name: *	Bord na Móna Public Limited Company
Application I.D.: *	LA010978

* indicates required field

Amendments to this Application Form Attachment

Version No.	Date	Amendment since previous version	Reason
V.1.0	July 2017	N/A	Online application form attachment
As above	Mar 2018	Identification of required fields	Assist correct completion of attachment

Storm Water Discharge Points

Storm water is rain water run-off from roof and non-process areas

Complete the table below for all storm water discharge points – (one row per discharge point).

Note: This section is **NOT** for rain water run-off from areas used for the outdoor storage of waste **OR** run-off from process areas likely to be contaminated.
(Process effluent discharges and emissions should be described in the **7.2 Emissions to Water** tab of the application form).

Discharge Point Code *	Easting * [1]	Northing * [2]	Discharges to? (enter relevant option) * [3]	Description of Discharge Point and Controls *	Name of receiving water (where applicable) *	Receiving Water Code (where applicable) *
SW4	271563	231222	Dillon's Bridge	Existing monitoring point downstream	River Cushaling	14_352
SW5	274075	230805	River	Outlet from existing bog attenuation pond into River Cushaling.	River Cushaling	14_352
SW6	274438	231508	Surface Water Drain	Outflow from existing Integrated Constructed Wetlands (ICWs) into surface water drainage network flowing towards SW5.	River Cushaling	14_352
SW9	274421	231047	Surface Water Drain	Outflow from proposed Integrated Constructed Wetlands (ICWs) into surface water drainage	River Cushaling	14_352

1 Six Digit GPS Irish National Grid Reference

2 Six Digit GPS Irish National Grid Reference

3 Options: **'River'**, '**Ditch**', '**Estuary**', '**Lake**', '**Land Drain**', '**Foul Sewer**', '**Percolation Area**', '**Groundwater**', '**Storm Sewer**' or '**Other**'
(where '**Other**' is selected please enter a description)

Discharge Point Code *	**Easting** * [1]	**Northing** * [2]	**Discharges to?** (enter relevant option) * [3]	**Description of Discharge Point and Controls** *	**Name of receiving water (where applicable)** *	**Receiving Water Code (where applicable)** *
				network flowing towards SW5.		

*add rows to the table as necessary

Storm Water Discharge Monitoring Points

Enter the Discharge Point Code, the associated Monitoring Point Code and the grid reference details for each Monitoring Point location.

Discharge Point Code*	Monitoring Point Code*	Easting * [4]	Northing * [5]
SW4	SW4	271563	231222
SW5	SW5	274075	230805
SW6	SW6	274438	231508
SW9	SW9	274421	231047
SW10	SW10	275626	232162

*add rows to the table as necessary

4 Six Digit GPS Irish National Grid Reference

5 Six Digit GPS Irish National Grid Reference

Storm Water Trigger Levels and Monitoring

Complete the table below with details of the trigger levels and proposed monitoring regime for each parameter.

Select parameters that are a good indicator of loss of containment on-site. Consult the EPA guidance in the setting of trigger values for storm water discharges to off-site surface wastes at EPA licensed facilities (2012).

(If different parameters or monitoring arrangements apply at different storm water discharge points include information on this within the table).

Parameter*	Trigger Level *	How was the trigger level determined? *	Sampling / Monitoring		
			Proposed Monitoring Frequency * [6]	Sample Method * [7]	Analysis Method and Technique * [8]
SW6 & SW9 - ICW Outfall					
Visual/*Odour*	-	-	Daily	Field - grab sample	Visual/Smell
Temperature	-	-	Daily	Field - grab sample	Online Temperature Probe with Recorder
pH	-	-	Daily	Field - grab sample	pH electrode/probe Meter and Recorder
Specific Electrical Conductivity	-	-	Daily	Field - grab sample	Probe meter and recorder
Total Alkalinity as $CaCO_3$	-	-	Weekly	Field - grab sample	Probe meter and recorder
Turbidity	-	-	Weekly	Field - grab sample	Probe meter and recorder
Total Colour	-	-	Weekly	Field - grab sample	Visual
Total Ammonia as N	0.5 mg/l	-	Weekly	Grab - laboratory	Standard Method
Total Suspended Solids	25 mg/l	-	Weekly	Grab - laboratory	Gravimetric /Online Calibrated Suspended Solids

[6] Option list: 'Continuous', 'Hourly', 'Daily', 'Weekly', 'Monthly', 'Quarterly', 'Biannually' OR 'Annually'.
[7] Option list: 'Continuous', '24-hour Flow Proportional Composite', '24-hour Time Proportional Composite' OR 'Grab'.
[8] Option list: 'Gravimetric', 'Online Calibrated Suspended Solids', 'Online Flow Meter with Recorder', 'Online pH electrode/probe Meter and Recorder', 'Online Temperature Probe with Recorder', 'Standard Method', 'Visual', OR 'To be agreed by the Agency'.

Parameter*	Trigger Level *	How was the trigger level determined? *	Sampling / Monitoring		
			Proposed Monitoring Frequency * [6]	Sample Method * [7]	Analysis Method and Technique * [8]
pH (Lab)	-	-	Weekly	Grab - laboratory	Standard Method
Chloride	-	-	Weekly	Grab - laboratory	Standard Method
Biological Oxygen Demand (5-day)	25 mg/l	-	Quarterly	Grab - laboratory	Standard Method
Chemical Oxygen Demand	-	-	Quarterly	Grab - laboratory	Standard Method
Metals/Non-metals	-	-	Annually	Grab - laboratory	Standard Method
List II/Organic Substances	-	-	Annually	Grab - laboratory	Standard Method
Mercury	-	-	Annually	Grab - laboratory	Standard Method
Sulphate (as SO_4)	-	-	Annually	Grab - laboratory	Standard Method
Nitrate (as N)	-	-	Annually	Grab - laboratory	Standard Method
Orthophosphate as P	-	-	Annually	Grab - laboratory	Standard Method
Total Phosphorus as P	-	-	Annually	Grab - laboratory	Standard Method
Faecal Coliforms	-	-	Annually	Grab - laboratory	Standard Method
Total Coliforms	-	-	Annually	Grab - laboratory	Standard Method
SW5 - Outfall from the existing bog settlement pond prior to discharge into the Cushaling River					
Visual/Odour	-	-	Weekly	Field - grab sample	Visual/Smell
Temperature	-	-	Weekly	Field - grab sample	Online Temperature Probe with Recorder
pH	-	-	Weekly	Field - grab sample	pH electrode/probe Meter and Recorder

Parameter*	Trigger Level *	How was the trigger level determined? *	Sampling / Monitoring		
			Proposed Monitoring Frequency * [6]	Sample Method * [7]	Analysis Method and Technique * [8]
Specific Electrical Conductivity	-	-	Weekly	Field - grab sample	Probe meter and recorder
Total Alkalinity as CaCO3	-	-	Weekly	Field - grab sample	Probe meter and recorder
Turbidity	-	-	Weekly	Field - grab sample	Probe meter and recorder
Total Colour	-	-	Weekly	Field - grab sample	Visual
Total Ammonia as N	0.5 mg/l	-	Weekly	Grab - laboratory	Standard Method
Total Suspended Solids	25 mg/l	-	Weekly	Grab - laboratory	Gravimetric /Online Calibrated Suspended Solids
pH (Lab)	-	-	Weekly	Grab - laboratory	Standard Method
Chloride	-	-	Weekly	Grab - laboratory	Standard Method
Biological Oxygen Demand (5-day)	25 mg/l	-	Quarterly	Grab - laboratory	Standard Method
Chemical Oxygen Demand	-	-	Quarterly	Grab - laboratory	Standard Method
Metals/Non-metals	-	-	Annually	Grab - laboratory	Standard Method
List II/Organic Substances	-	-	Annually	Grab - laboratory	Standard Method
Mercury	-	-	Annually	Grab - laboratory	Standard Method
Sulphate (as SO4)	-	-	Annually	Grab - laboratory	Standard Method
Nitrate (as N)	-	-	Annually	Grab - laboratory	Standard Method
Orthophosphate as P	-	-	Annually	Grab - laboratory	Standard Method
Total Phosphorus as P	-	-	Annually	Grab - laboratory	Standard Method
Faecal Coliforms	-	-	Annually	Grab - laboratory	Standard Method
Total Coliforms	-	-	Annually	Grab - laboratory	Standard Method

Parameter*	Trigger Level *	How was the trigger level determined? *	Sampling / Monitoring Proposed Monitoring Frequency * [6]	Sample Method * [7]	Analysis Method and Technique * [8]
SW4 - Downstream of site on the Cushaling River					
Total Ammonia as N	0.5 mg/l	-	Quarterly	Grab - laboratory	Standard Method
Total Suspended Solids	25 mg/l	-	Quarterly	Grab - laboratory	Gravimetric /Online Calibrated Suspended Solids
pH (Lab)	-	-	Quarterly	Grab - laboratory	Standard Method
Chloride	-	-	Quarterly	Grab - laboratory	Standard Method
Biological Oxygen Demand (5-day)	25 mg/l	-	Quarterly	Grab - laboratory	Standard Method
Chemical Oxygen Demand	-	-	Quarterly	Grab - laboratory	Standard Method
Metals/Non-metals	-	-	Annually	Grab - laboratory	Standard Method
List II/Organic Substances	-	-	Annually	Grab - laboratory	Standard Method
Mercury	-	-	Annually	Grab - laboratory	Standard Method
Sulphate (as SO_4)	-	-	Annually	Grab - laboratory	Standard Method
Nitrate (as N)	-	-	Annually	Grab - laboratory	Standard Method
Orthophosphate as P	-	-	Annually	Grab - laboratory	Standard Method
Total Phosphorus as P	-	-	Annually	Grab - laboratory	Standard Method
Faecal Coliforms	-	-	Annually	Grab - laboratory	Standard Method
Total Coliforms	-	-	Annually	Grab - laboratory	Standard Method
SW10 - Sampled Only during Construction Periods					
Visual	-	-	Daily	Field	Visual/Smell

Parameter*	Trigger Level *	How was the trigger level determined? *	Sampling / Monitoring		
			Proposed Monitoring Frequency * [6]	Sample Method * [7]	Analysis Method and Technique * [8]
Temperature	-	-	Daily	Field	Online Temperature Probe with Recorder
pH	-	-	Daily	Field	pH electrode/probe Meter and Recorder
Specific Electrical Conductivity	-	-	Daily	Field	Probe meter and recorder
Total Alkalinity as $CaCO_3$	-	-	Daily	Field	Probe meter and recorder
Turbidity	-	-	Daily	Field	Probe meter and recorder
Total Colour	-	-	Daily	Field	Visual
Attenuation Lagoons (SWL's 1-7 Outlets)					
Visual/Odour	-	-	Daily	Grab	Visual/Smell
Water levels	-	-	Daily	Grab	Standard Method
Dissolved oxygen	-	-	Daily	Grab	Probe meter and recorder
Specific Electrical Conductivity	-	-	Daily	Grab	Probe meter and recorder

*add rows to the table as necessary

[#] Screening for priority pollutant list substances (such as US EPA volatile or semi volatile compounds)

If not provided for in the table above, upload a document that includes details of how storm water is proposed to be monitored (select Document Type: '**Storm Water Monitoring**' in the application form).

Storm Water Monitoring document file name: