

Facility Information Summary	
AER Reporting Year	2018
Licence Register Number	P0081-02
Name of site	Lagan Bitumen Ltd
Site Location	Rosemount Business Park, Ballycoolin, Dublin 11.
NACE Code	2052
Class/Classes of Activity	5.9
National Grid Reference (6E, 6 N)	309836, 240700

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.**

The Company produces bitumenous materials to national and international standards. The asphalt plant produced 157,000 tonnes of product in 2018 down from 200,441 tonnes produced in 2017. The bitumen plant produced 18,100 tonnes of product in 2018 and this is up from 16,200 tonnes in 2017. There were no infrastructural changes at the site in 2018. All monitoring carried out in 2018 was in compliance with the licence limits. All groundwater monitoring wells across the site (except the production well) have been decommissioned as per Agency requirement. The Licence has been technically amended to remove the old quarry grounds (fully decommissioned and no longer in the ownership of the company) from the Licence and the revised site boundary shows the main production plant yard and associated infrastructure and car parking. The Licensee was changed from Irish Asphalt Ltd to Lagan Bitumen Ltd in 2017.

**Declaration:**

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

John O'Connor	08/04/2018
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

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<b>AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)</b>	Lic No: P0081-02	Year: 2018	Additional information
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1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licensed emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Yes	
Yes	

**Table W1 Storm water monitoring**

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	License Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

\*Trigger values may be agreed by the Agency outside of licence conditions

**Table W2 Visual inspections-Please only enter details where contamination was observed.**

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

**Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)**

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

No	
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External/Internal Lab Quality Assessment of results checklist Yes

**Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)**

Emission reference no:	Emission released to	Parameter/ Substance/Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof*	License Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
SW1	Water	Suspended Solids	discrete	quarterly	quarterly	35	All results < 1.2 x ELV	8.4	mg/L	yes	Gravimetric analysis	Standard methods	2500	NA	
SW2	Water	Suspended Solids	discrete	quarterly	quarterly	35	All results < 1.2 x ELV	8.7	mg/L	yes	Gravimetric analysis	Standard methods	2500	NA	
SW1	Water	Mineral oils	discrete	quarterly	quarterly	1	All results < 1.2 x ELV	0.05	mg/L	yes	Fourier Infra-Red (FTIR)	ISO		NA	
SW2	Water	Mineral oils	discrete	quarterly	quarterly	1	All results < 1.2 x ELV	0.01	mg/L	yes	Fourier Infra-Red (FTIR)	ISO		NA	

note 1: Volumetric flow shall be included as a reportable parameter  
 note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

**Continuous monitoring**

5 Does your site carry out continuous emissions to water/sewer monitoring?

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

No	
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**Table W4: Summary of average emissions -continuous monitoring**

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

**Table W5: Abatement system bypass reporting table**

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	
						SELECT	

\*Measures taken or proposed to reduce or limit bypass frequency

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<b>Bund/Pipeline testing template</b>	Lic No: P0081-02	Year: 2018	
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**Bund testing** dropdown menu click to see options

**Additional information**

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all new bunds and containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included)

	Yes	All bunds are existing bunds and were tested in 2017 and all passed, with the exception of Bund 7 which could not be tested due to production constraints
1	3 years	
2	Yes	
3	11	
4	10	
5	1	
6	Yes	
7	1	
8	0	
9	0	
10	0	
11	N/A	
12	N/A	
13	N/A	

- 1 Please provide integrity testing frequency period
- 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
- 3 "Chemstore" type units and mobile bunds
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1
- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- 13 Is the Fire Water Retention Pond included in your Integrity test programme?

**Table B1: Summary details of bund /containment structure integrity test**

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of Integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

\* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

bunding and storage guidelines

	Yes	Commentary
15	No	
16	SELECT	

- 15 Are channels/transfer systems to remote containment systems tested?
- 16 Are channels/transfer systems compliant in both integrity and available volume?

**Pipeline/underground structure testing**

Are you required by your licence to undertake integrity testing\* on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all underground structures and pipelines on site which failed the integrity test and all which have not been tested within the integrity test period as specified

	Yes	
2	3 years	

- 2 Please provide integrity testing frequency period
- \*please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

**Table B2: Summary details of pipeline/underground structures integrity test**

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type Integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

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		Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	
3	Do you extract groundwater for use on site? If yes please specify use in comment section	yes	
Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.		no	All groundwater monitoring wells have been decommissioned at the site as per EPA instruction and only well GW1 is still in place, as this well is used in production. The main results for the production well have been included in Table 1 below just for reference.
5	Is the contamination related to operations at the facility (either current and/or historic)	SELECT	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	SELECT	
7	Please specify the proposed time frame for the remediation strategy	SELECT	
8	Is there a licence condition to carry out/update EIRA for the site?	SELECT	
9	Has any type of risk assessment been carried out for the site?	SELECT	
10	Has a Conceptual Site Model been developed for the site?	SELECT	
11	Have potential receptors been identified on and off site?	SELECT	
12	Is there evidence that contamination is migrating offsite?	SELECT	

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring Frequency	Maximum Concentration <sup>++</sup>	Average Concentration <sup>++</sup>	unit	GTVs*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
09/02-31/07	GW1	conductivity	meter	Biannual	996	981	µS/cm @ 20°C	1875	DWS	No
09/02-31/07	GW1	ammonia	colorimetry	Biannual	0.11	0.1	mg/l	0.175	DWS	No
09/02-31/07	GW1	chloride	titration	Biannual	52	47	mg/l	187.5	DWS	No
09/02-31/07	GW1	pH	meter	Biannual	7.7	7.5	pH units		DWS	No

\* where average indicates arithmetic mean  
 ++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring Frequency	Maximum Concentration	Average Concentration	unit	GTVs*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data

\* please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.  
 \*\* depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), if the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS).  
 Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).

Table 3: Soil results

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary	
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	293300	
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	293300	
6	Financial Provision for ELRA - type	Other please specify	PCG
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	529659	
12	Financial Provision for Closure - type	Other please specify	PCG
13	Financial provision for Closure expiry date	Enter expiry date	

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**Environmental Management Programme/Continuous Improvement Programme template** Lic No: P0081-02 Year 2018

Highlighted cells contain dropdown menu click to view

Additional Information

1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	The Company has implemented a quality assurance system and an environmental management system and has certification to the ISO 9001 and ISO 14001 standards. The EMS is in operation for the site and is reviewed annually.
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

**Environmental Management Programme (EMP) report**

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Water	Maintain low suspended solids in discharge to SW	90	Keep interceptors cleaned out. Visual inspections of discharge point	Individual	Reduced emissions
Reduction of emissions to Air	Keep asphalt plant maintained	90	Replacing bag filters. Routine maintenance	Individual	Reduced emissions
Additional improvements	Achieve 100% compliance with Licence ELVs	90	Quarterly review meetings to assess progress and identify improvements	Individual	Increased compliance with licence conditions

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**Noise monitoring summary report** Lic No: P0081-02 Year 2018

- 1 Was noise monitoring a licence requirement for the AER period?  
If yes please fill in table N1 noise summary below
- 2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?
- 3 Does your site have a noise reduction plan
- 4 When was the noise reduction plan last updated?
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
27.06.2018	08.00 - 18.00	N1		46	35	50	76	No	No	Site, external traffic	Yes
27.06.2018	08.00 - 18.00	N2		50	37	47	75	No	No	Site, external traffic	Yes
27.06.2018	08.00 - 18.00	N3		50	38	50	69	No	No	Site, external traffic	Yes
27.06.2018	08.00 - 18.00	N4		47	37	48	73	No	No	Site, external traffic	Yes
27.06.2018	23.00 - 04.00	N1		40	36	42	62	No	No	External traffic	Yes
27.06.2018	23.00 - 04.00	N2		41	36	44	63	No	No	external traffic	Yes
27.06.2018	23.00 - 04.00	N3		42	37	44	62	No	No	external traffic	Yes
27.06.2018	23.00 - 04.00	N4		38	34	40	59	No	No	External traffic	Yes

\*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

**\*\* please explain the reason for not taking action/resolution of noise issues?**

Any additional comments? (less than 200 words)

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- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional Information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional Information

Additional Information	
Enter date of audit	2004
SEAI - Large Industry Energy Network (LIEN)	Yes
Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional Information	Yes < 1%

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWhrs)	2073.9	1958.4	-24%	5.5
Total Energy Generated (MWhrs)				
Total Renewable Energy Generated (MWhrs)				
Electricity Consumption (MWhrs)	2073.9	1958.4	-24%	5.5
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	851.1	1483.5	-24%	74
Light Fuel Oil (m3)	190	328	-24%	73
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				

\* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

Water use	Water extracted		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Water Emissions Volume Discharged back to environment (m <sup>3</sup> /yr)	Water Consumption Volume used i.e not discharged to environment e.g. released as steam (m <sup>3</sup> /yr)	Unaccounted for Water
	Previous year m3/yr.	Current year m3/yr.					
Groundwater	12,000	12,000	-24%	Not comparable	0	12,000	0
Surface water							
Public supply							
Recycled water							
Total							

\* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	28.64				28.64
Non-Hazardous (Tonnes)	27.5	23.99		3.51	

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
2004	Reduce amount of energy used in the asphalt plant dryer	Reduced feeds & min temperatures maintained	energy audit	NA	Ongoing	Plant Manager	Ongoing	Ongoing
2004	Reduce amount of energy used in the bitumen plant dryer	Turn off conveyors when not in use	energy audit	NA	Ongoing	Plant Manager	Ongoing	Ongoing
2004	Reduce the amount of energy used by buying energy efficient equipment	Assess energy rating of all new equipment before purchase	energy audit	NA	Ongoing	Purchasing Manager	Ongoing	Ongoing

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry) please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWh)					
House Load (GWh)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

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**Complaints and Incidents summary template** Lic No: P0081-02 Year 2018

Complaints Additional information

Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below

No

Table 1 Complaints summary							
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action < 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year		0					
Total new complaints received during reporting year		0					
Total complaints closed during reporting year		0					
Balance of complaints end of reporting year		0					

Incidents Additional information

Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below

No

\*For information on how to report and what constitutes an incident

What is an incident

Table 2 Incidents summary														
Date of occurrence	Incident nature	Location of occurrence	Incident category* please refer to guidance	Receptor	Cause of incident	Other cause please specify	Activity in progress at time of incident	Communication	Occurrence	Corrective action <20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of incidents current year		0												
Total number of incidents previous year		0												
% reduction/increase		0												

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SECTION A- WASTE MANAGEMENT RECORD FOR WASTE TRANSFERRED OFF SITE

Please insert details of waste transferred off site in the adjoining Waste Management Record tab.

SECTION B- WASTE ACCEPTED ONTO SITE- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility? (waste generated within your boundaries is to be captured through PRTR reporting)

If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

Licensed annual tonnage limit for your site (tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year %	Reason for reduction/ increase from previous reporting year	Packaging Content (N) only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments
	European Waste Catalogue EWC codes		European Waste Catalogue EWC codes								
NA	17 03 02	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Asphalt Road plantings	3705	4000	1%	It is dependance on the number of road jobs completed during the year		RS- Recycling/Reclamation or other inorganic materials which includes soil colouring resulting in recovery of the soil and recycling of inorganic construction materials	0	The road plantings are stockpiled and crushed and 100% recycled in the process as needed

SECTION C- TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required on site

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

6 Does your facility have relevant nuisance controls in place?

7 Do you have an odour management system in place for your facility? If no why?

8 Do you maintain a sludge register on site?

SECTION D- TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licensed annual intake for disposal (t/a)	Actual intake for disposal in reporting year (t/a)	Remaining licensed capacity at end of reporting year (t/a)	Comments

Table 3 General information-landfill only

Area ID	Date landfill commenced	Date landfill ceased	Currently landfilling	Private or Public Operator	Inert or non-hazardous	Predicted deficit to cease landfilling	Licence permits sub-site	Is there a separate cell for sub-site?	Accepted substance in reporting year	Total disposal area occupied by waste	Land disposal area occupied by waste	Unfilled area	Comments on this type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell B													

Table 4 Environmental monitoring-landfill only

Was microbiological monitoring in compliance with Landfill Directive (LD) standards in reporting year?	Was leachate monitored in compliance with LD standards in reporting year?	Was Landfill Gas monitored in compliance with LD standards in reporting year?	Was SW monitored in compliance with LD standards in reporting year?	Have GW trigger levels been established?	Were emission limit values agreed with the Agency (ELV's)?	Has the topography of the site surveyed in reporting year?	Has the site been submitted for WMA in reporting year?	Comments

Table 5 Capping-landfill only

Area covered*	Area with temporary cap	Area with final cap in LD Standard m <sup>2</sup> ha, a	Area capped other	Area with waste that should be permanently capped in site under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

Table 6 Leachate-landfill only

Volume of leachate in reporting year (m <sup>3</sup> )	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load (kg/annum)	Leachate treatment on-site	Specify type of leachate treatment	Comments

Table 7 Landfill Gas-landfill only

Gas Captured & Treated by LFG System (m <sup>3</sup> )	Power generated (kWh / kVh)	Used on-site or in national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

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Waste Summary Continued

Please insert a copy of your Waste Management Record for waste transferred off site

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Site Waste: Name and Licence/Permit No of Next Destination Facility Non-Haz Waste: Name and Licence/Permit No of Receiver/Disposer	Site Waste: Address of Next Destination Facility Non-Haz Waste: Address of Receiver/Disposer	Name and License / Permit No. and Address of Final Recovery / Disposal (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	13 05 03*	Yes	24.38	sludges from oil/water separators	D3	M	Wtghod	Offsite in Ireland	Envva,W0156-1	JFK Industrial Estate,JFK Road,Naas Road,Dublin 11,Ireland	Envva,W0195-1,JFK Industrial Estate,JFK Road,Naas Road,Dublin 12,Ireland	JFK Industrial Estate,JFK Road,Naas Road,Dublin 12,Ireland
Within the Country	15 01 03	No	1.72	wooden packaging	R12	M	Wtghod	Offsite in Ireland	Greenstar Ltd,W0183-01	Millerium Business Park,Grange,Ballycoolin,Dublin 11,,Ireland		
Within the Country	20 01 40	No	1.79	metals	R4	M	Wtghod	Offsite in Ireland	MSM Recycling,WFP-TN-11-0003-02	Annagh,,Elr,,Co Offaly,Ireland		
Within the Country	20 03 01	No	23.99	mixed municipal waste	D1	M	Wtghod	Offsite in Ireland	CityBin,W0148-01	Oranmore Business Park,Cranmore,Galway,,Ireland		
To Other Countries	15 01 10	Yes	4.26	packaging containing residues of or contaminated by dangerous substances	R1	M	Wtghod	Abroad	Bilta Environmental,W0192-3	Greenogue Business park,Rathcoole,,Co Dublin,Ireland	Recycle! SA,P-ENV07-01,Zoning Industrial d'Ehein,B-4480,Engis,,Belgium	Zoning Industrial d'Ehein,B-4480,Engis,,Belgium

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