

Annual Environmental Report 2019 Bord na Mona Energy Ltd (Mountdillon Group of Bogs) IPC Licence P0504-01

Facility Information Summary

AER Reporting Year Licence Register Number Name of site Site Location NACE Code Class/Classes of Activity National Grid Reference (6E, 6 N)

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.

	2019
	P0504-01
	Bord na Mona Mountdillon
	Mountdillon, Lanesboro, Co Longford
1	0892
	1.4
	E204720. N268880

Activities on site can be divided into two components, firstly the milling, harrowing, ridging and harvesting of peat into stockpiles and secondly the transportation of that peat via an internal rail network to the Power Station and lorry outloading facilities. Production achieved was 354376 tonnes which was a 58% reduction on 2018. Production has ceased in 85% of the Mountdillon bogs and these are now entering the decommissioning and rehabilitation phase. There were 3 environmental complaints received during the reporting period, all related to dust nuisance and all reported to the Agency through ALDER, and 5 incidents of exceedance in trigger levels for Ammonia and COD at various emission points as partof the quarterly sampling requirements, all in in-active bogs. The number of exceedances in 2019 was the same as 2018. In relation to silt pond cleaning, 100% of ponds received the required two cleanings with some ponds receiving three. Decommissioning and Rehabilitation works are described in an attachment. During the reporting period, there were a number of notifications to the Agency, including notification of a proposed Windfarm at Derryadd Bog, a revised rehabilitation plan for Mostrim Bog and notification of an interim cessation of peat extraction at Mountdillon, pending regularisation.

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.

Tennin

Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)

202 0

Date

	Answer all questions and complete all tables where relevant			
			Additional information	
	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current			
1	reporting year and answer further questions. If you do not have licenced emissions and do not complete			
	a solvent management plan (table A4 and A5) you <u>do not</u> need to complete the tables			
		No	Fugitive emissions only	

Periodic/Non-Continuous Monitoring

AIR-summary template

2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section
	of TableA1 below
	Basic air_

³ Was all monitoring carried out in accordance with EPA guidance monitoring note AG2 and using the basic air monitoring checklist? checklist



Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission		Frequency of	ELV in licence or any revision			Unit of any any	Compliant with		Annual mass	Comments -reason for change in % mass load from previous
reference no:	Parameter/ Substance	Monitoring	therof	Licence Compliance criteria	Measured value	measurement	licence limit	Method of analysis	load (kg)	year if applicable
						rposited				
	SELECT			SELECT	. \$	SELECT	SELECT	SELECT		
	SELECT			SELECT	spection own	SELECT	SELECT	SELECT		
	SELECT			SELECT	For in the fit	SELECT	SELECT	SELECT		
	SELECT			SELECT	s con	SELECT	SELECT	SELECT		
Note 1: Volumetr	ic flow shall be included as	a reportable parame	ter	Ň	Ô'					•

	AIR-summary template	Lic No:	P0504-01	Year	2019
	Continuous Monitoring				
4	Does your site carry out continuous air emissions monitoring?	No			
	If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)				
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No			
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	No			
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No			

Did your site experience any abatement system bypasses? If yes please detail them in table A3 below Table A2: Summary of average emissions -continuous monitoring

Emission	Parameter/ Substance		Averaging Period	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments
reference no:					measurement			Equipment	exceedences in	
		ELV in licence or					<i>C</i> .•	downtime (hours)	current	
		any revision therof					150		reporting year	
		350mg/m2/day	84			5880	178	(0 0	Dust monitoring took place on
							ott			3 occasions for 28 days each
						19.02	4			time between May and Aug
DM-01	Total Particulates			Daily average < ELV	mg/m2/day	official				
DM-02	Total Particulates	350mg/m2/day	84	Daily average < ELV	mg/m2/day	్లలో 🔨 4256	i 122	. (0 0	i
DM-05	Total Particulates	350mg/m2/day	84	Daily average < ELV	mg/m2/day	5152	134	(0 0	1
DM-06	Total Particulates	350mg/m2/day	84	Daily average < ELV	mg/m2/day 🔬	6272	140) (0 0	1
	SELECT				SELECT .	10				
note 1: Volumetri	c flow shall be included as	a reportable paramet	er.		other the	<i></i>				
					2° 0					
Table A3: Aba	atement system byp	ass reporting tal	ole	Bypass protocol	a in oh					_
Date*	Duration** (hours)	Location	Re	eason for bypass	Far	Impact magnitude	2	Correctiv	e action]
					AV .					1

Table A3: Abatement system bypass reporting table

Date*	Duration** (hours)	Location	Reason for bypass	やん	Impact magnitude	Corrective action
				COX		
			*	de C		
			efft			
			015			
			\mathcal{O}			

* this should include all dates that an abatement system bypass occurred

** an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

AIR-sum	nary template				Lic No:	P0504-01		Year	2019	
So	lvent use and managem	ent on site								
8 Do you have	e a total Emission Limit Value of	direct and fugitive em	issions on site? if ye	es please fill out tables A4 and A	5					
	· Columnt Managament F		Solvent	Please refer to linked solven	t regulations to	1	No			
Total VO	C Emission limit value	nan Summary	regulations	complete table 5	and 6					
Deserting	Tatal solvest issue as	TatalVOC	Tatal VOC		Compliance					
Reporting	site (kg)	emissions to Air	emissions as %of		Compliance					
		from entire site (direct and fugitive)	solvent input	Total Emission Limit Value						
		(******************		therof						
					SELECT		ee.			
					SELECT		net			
Table	A5: Solvent Mass Balar	ice summary				4· 13	, Or		1	
						25 Offor at				
	(I) Inputs (kg)			(O)	Outputs (kg)	rposited /				
					nP	or redu				
Calver		Our stand and	Colored and the		ection		Colored and a start of the	Tabal sociation of		
Solven	(I) Inputs (kg)	emission in waste	water (kg)	Collected waste solvent (kg)	Solvent (kg)	in other ways e.g.	onsite through	Solvent to air (kg)		
					to Plan					
				×	8 CE -					
				n ^{self}						
	·	·		Cox	•	•	Total			

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: P0504-01 Year 2019

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 licenced emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections

Yes

Was it a requirement of your licence to carry out visual inspections on any surface water 2 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

Monthly COD analysis of yard runoff is attached in a separate document. Yes

Additional information

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence 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 🥵
Γ					SELECT		150
Γ					SELECT		1
ц з	icensed Emission	s to water an t in breach of lice comme	d /or wastewater(sewer)-periodic monitoring (n nce requirements? If yes please provide brief details in the nt section of Table W3 below	NO	;)	Additional information	South' any othe
					Surface water monit	toring was carried out on a guarterly basis. The recil	to of which are attached. Monthly COD

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

Was all monitoring carried out in accordance with EPA guidance

and checklists for Quality of Aqueous Monitoring Data Reported External /Internal

to the EPA? If no please detail what areas require improvement in Lab Quality 4 additional information box checklist

Additional information Surface water monitoring was carried out on a quarterly basis. The coults of which are attached. Monthly COD yard runoff results are also attached. HUT CUIT H Assessment of results checklis

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

						ELV or trigger values in licence or	FORMER						Procedural		
Emission reference	Emission	Parameter/		Frequency of		any revision	× 0°		Unit of	Compliant with		Procedural	reference	Annual mass load	
no:	released to	SubstanceNote 1	Type of sample	monitoring	Averaging period	therof ^{Note 2}	Licence Compliance criteria	Measured value	measurement	licence	Method of analysis	reference source	standard number	(kg)	Comments
							CONSC								
							v								

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

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)	Lic No:	P0504-01	Year	2019

 Continuous monitoring		Additional Information
5 Does your site carry out continuous emissions to water/sewer monitoring?	Yes	
If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)		
6 Uid continuous monitoring equipment experience downtime? If yes please record downtime in table 6 W4 below	Yes	172 days in 365. See note below
7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	Vee	

Voc

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below No

Table W4: Summary of average emissions -continuous monitoring

Emission reference	Emission released to	Parameter/Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance	Units of	Annual Emission for current	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in	Comments
SW77A	Water	Suspended Solids	35	24 hour	Not lifted	mg/L	reporting feet (ng)		4128	0	Down time is usually due to no flow and battery failure issues. However during the reporting year the sampler gave considerable problems due to both software and mechanical breakdowns. Currently a review of all samplers is under way. Its not possible to report average continuous emissions as this sampler is located on one of 151 silt ponds and samplers are moved around periodically to allow for analysis
SW77A	Water	Ammonia (as N)	1.42	Weekly		mg/L				x 1150	
SW77A	Water	Total phosphorus	NA	Weekly	NA	mg/L			Š	¢,	
SW77A	Water	COD	100	Weekly	NA	mg/L			ally any		
SW77A	Water	volumetric flow	NA	24 hour	NA	m3/day		e e	dior		
SW77A	Water	Total Dissolved Solids	NA	Weekly	NA	mg/L		all Pull			
note 1: Volumetric flov	v shall be included	l as a reportable paramete	er.		÷			: on Pries			
Table W5: Abater	nent system b	oypass reporting tab	le				c l	ctic spect			
Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the	When was this report submitted?				

Annual calibration schedule and trouble shooting service

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant	Reason for	Corrective	Was a report	When was this report	2
			emissions	bypass	action*	submitted to the	submitted?	Pr th
						EPA?	A Y	:00
						SELECT	FO A	Sec.
							100	
							ç Cr	
*Measures taken or pro	posed to reduce	or limit bypass frequency					_ O`	
							and the	
							Ser	
							~ OIL	
							0-	

Bund/Pipeline testing template				Lic No:	P0504-01		Year	2019		
Rund testing	drandown manu click	k to soo options				Additional information				
Bund testing	aropaown menu cick	k to see options				Additional Information	-			
Are you required by your licence to undertake integrity	testing on bunds and conta	ainment structures ? if yes p	ease fill out table B1 below	w listing all new bunds						
and containment structures on site, in addition to all b	unds which failed the integr	rity test-all bunding structur	es which failed including r	nobile bunds must be						
listed in the table below, please include all bunds outsi $\ensuremath{\mathbbm 1}$	de the licenced testing peri	iod (mobile bunds and chem	store included)		Yes					
2 Please provide integrity testing frequency period					Other (2 Yearly)					
Does the site maintain a register of bunds, undergroun	d pipelines (including storm	nwater and foul), Tanks, sum	ps and containers? (contai	iners refers to						
3 "Chemstore" type units and mobile bunds)					Yes					
4 How many bunds are on site?					3					
5 How many of these bunds have been tested within the	required test schedule?				3	All Bunds were tested in 2019				
6 How many mobile bunds are on site?					7	,				
7 Are the mobile bunds included in the bund test schedu	le?				No					
8 How many of these mobile bunds have been tested wit	hin the required test sched	ule?			0					
9 How many sumps on site are included in the integrity to	est schedule?				0					
10 How many of these sumps are integrity tested within the	ne test schedule?				C					
Please list any sump integrity failures in table B1										
11 Do all sumps and chambers have high level liquid alarm	is?				N/A					
12 If yes to Q11 are these failsafe systems included in a ma	aintenance and testing prog	gramme?			N/A					
13 Is the Fire Water Retention Pond included in your integ	grity test programme?				N/A					
Table B1: Summary details of bund /	containment structure integ	grity test								

	Bund/Containment								.9)*	Integrity reports maintained on		Integrity test failure		Scheduled date	Results of retest(if in current
	structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	site?	Results of test	explanation <50 words	Corrective action taken	for retest	reporting year
	504-05-01	Reinforced Concrete		Gas Oil	224608	45000	Hydraulic Test	esonty any other	20/09/2019	Yes	Pass	N/A	N/A	N/A	N/A
	504-05-06	Reinforced Concrete		Gas Oil	36720	25000	Hydraulic Test	00	18/10/2019	Yes	Pass	N/A	N/A	N/A	N/A
	504-05-05	Reinforced Concrete		Gas Oil	104580	23000	Hydraulic Test	1 C 3	09/10/2019	Yes	Pass	N/A	N/A	N/A	N/A
	* Capacity required should comply	with 25% or 110% containment rule	le as detailed in your licence					Commentary							
	Has integrity testing bee	en carried out in accordar	nce with licence requirements and	d are all structures tested	-		\$	A 10							
15	in line with BS8007/EPA	Guidance?			bunding and storage guideling	nes	SELECT :	1 de							
16	Are channels/transfer sy	ystems to remote contain	ment systems tested?				SELECT	00 10							
4.7	Ann also and a la la san afra a		Contraction of a solution of the solution of the				CELECT A								

Petrol tank Tested 04 April 2018 and

Passed

17 Are channels/transfer systems compliant in both integrity and available volume?

Pipeline/underground structure testing

SELECT CL SELECTED to The first d Ves control (2 Yearly) 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 1 all underground structures and pipelines on site which failed the integrity test and all which have not been tested withing the integrity test period as specified 2 Please provide integrity testing frequency period

*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

Table	B2: Summary details of pi	peline/underground structures ir	ntegrity test	Ī	C0113						
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

6

Groundwater/Soil monitoring template

Lic No:

2019

Year

		Comments	
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	no		Please provide an interpretation of groundwater monitoring data in
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		the interpretation box below or if you require additional space please
Do you extract groundwater for use on site? If yes please specify use in comment 3 section	no		include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
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, 4 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 monitoring below:			
5 Is the contamination related to operations at the facility (either current and/or historic)	N/A		
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	N/A	et ?	
7 Please specify the proposed time frame for the remediation strategy	N/A	othe	
8 Is there a licence condition to carry out/update ELRA for the site?	N/A	19. 19	
9 Has any type of risk assesment been carried out for the site?	N/A	OFOI	
10 Has a Conceptual Site Model been developed for the site?	N/A	See of	
11 Have potential receptors been identified on and off site?	N/A	ar Paire	
12 Is there evidence that contamination is migrating offsite?	N/A	to toot	Please enter interpretation of data here
Table 1: Upgradient Groundwater monitoring results	Forinspection	let	

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Table 1: Upgradient Groundwater monitoring results

-				<u> </u>						
Date of	Sample location	Parameter/		Monitoring	Maximum	Average				
sampling	reference	Substance	Methodology	frequency	Concentration++	Concentration+	unit	GTV's*	SELECT**	
					~	11 Alexandress of the second s	SELECT			SELECT
					~01 ³		SELECT			SELECT
+ whore a	waraga indicata	s arithmotic m					•			

.+ 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	GTV's*	SELECT**		
							SELECT			SELECT	
							SELECT			SELECT	
*please n upward tr please com	*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.										
More inform assessment published gu	nation on the use criteria (GAC) an uidance (see the	of soil and grou d risk assessmer link in G31)	indwater standard nt tools is available	ds/ generic e in the EPA	Guidance on the	Management of C	ontaminated Land and Gr	oundwater a	it EPA Licensed S	<u>ites (EPA 2013).</u>	

Groundwater/Soil monitoring template	Lic No:	P0504-01		Year	2019	9		
**Depending on location of the site and proximity to other sensitive rec addition to the GTV e.g. if the site is close to surface water compare to Su drinking water supply compare resu	eptors alternative Rece urface Water Environme Its to the Drinking Wate	ptor based Water Quality standa ntal Quality Standards (SWEQS), r Standards (DWS)	rds should be used in If the site is close to a	Surface water EQS	Groundwater regulations <u>GTV's</u>	Drinking water (private supply) standards	Drinking water (public supply) standards	Interim Guideline Values (IGV)

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Table 3: Soil results

Date of	Sample location	Parameter/	Mothodology	Monitoring	Maximum	Average	unit
sampling	relefence	Substance	wethodology	requency	Concentration	Concentration	unit
							SELECT
							SELECT

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

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Environmental Liabilities template

Click here to access EPA guidance on Environmental Liabilities and Financial

provision

			Commentary
1	ELRA initial agreement status	Not a Licence Requirement	
2	ELRA review status	NA	
3	Amount of Financial Provision cover required as determined by the latest ELRA	NA	
4	Financial Provision for ELRA status	NA	
5	Financial Provision for ELRA - amount of cover	NA	, USC.
6	Financial Provision for ELRA - type	NA	and other
7	Financial provision for ELRA expiry date	NA Set	of for t
8	Closure plan initial agreement status	NA NA	~
9	Closure plan review status	NA Ster	
10	Financial Provision for Closure status	NA til net	
11	Financial Provision for Closure - amount of cover	NA	
12	Financial Provision for Closure - type	NAL OIL	
13_	Financial provision for Closure expiry date	E NAVIE	
		Consent of cur	

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	Environmental Management Programme/Continuous Improvement Programme	e template	Lic No:	P0504-01	Year	2019
	Highlighted cells contain dropdown menu click to view		Additional Informatio	n		
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	In	ternal unaccredited EMS		
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	e (EMP) report				
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Training.Continue to train		In total 79 Personnel		
	all employees in		received training in 2019. 7		
	environmental matters.		hydraulic harrows were		
	Training will be by means		deployed during the 2019		
	of the screening of an		production season.		
	environmental DVD,		100 Helt		
	followed by a power point		Diricalit		
	presentation.	id	at the second		
		0°°°	ALL .		
		instit			Improved Environmental
		FOT 118 90		Individual	Management Practices
Waste reduction/Raw material usage	Waste Streamlining.It is	Cor,	Installed a waste		
efficiency	planned to continue with	, or	management system.		
	and where possible	Selle	Quarterly waste reports are		
	improve the current waste	COL	returned for records/filing		
	management service	\sim	and waste streams are		
	provided by AES Ltd		segrated on site to maximise		
			recycling potential.		
					Improved Environmental
		100		Section Head	Management Practices
Reduction of emissions to Water	Training. Continue to train		In total 79 Personnel		
	all employees in		received training in 2019.		
	environmental matters.				
	Training will be by means				
	of the screening of an				
	environmental DVD,				
	followed by a power point				
	presentation.				Improved Environmental
		90		Individual	Management Practices

.

Increased bund capacity will be provided where required. Bund integrity testing will be carried out where required.		There were no additional bund requirements. Bund integrity testing was carried out in 2019				
will be provided where required. Bund integrity testing will be carried out where required.		bund requirements. Bund integrity testing was carried out in 2019				
required. Bund integrity testing will be carried out where required.		integrity testing was carried out in 2019				
testing will be carried out where required.		out in 2019				
where required.						
				Improved Environmental		
	80		Individual	Management Practices		
Continue with the		In total 262.62 tonnes of				
recycling of polyethylene.		polythene were sent off site				
The sourcing of more		for recycling. Procurement				
recycling contractors will		also exploring the possibility				
be ongoing.		of securing further recyclers.		Improved Environmental		
	100		المطنيناطيها	Improved Environmental		
Continue with the	100	The site successfully	Individual			
implementation process of		managed the energy				
the Energy Standard 50001		standard 50001 Energy				
the Energy Standard 50001.		management is angoing at				
		the site				
		office				
		all'and		Improved Environmental		
	100	5 O'FOT	Section Head	Management Practices		
It is proposed to upgrade		Septic tanks are continually				
existing septic tank systems		being assessed and upgrade				
where required.	ion	works scheduled where				
- -	pect a	required.				
	instato	-		Improved Environmental		
	LOT 1100 90		Section Head	Management Practices		
	Cob,				_	
	, di					
	Selle					
	Con					
	Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing. Continue with the implementation process of the Energy Standard 50001. It is proposed to upgrade existing septic tank systems where required.	Image: Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 100 Image: Continue with the implementation process of the Energy Standard 50001. 1000 Image: Contimpl	80 Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing. In total 262.62 tonnes of polythene were sent off site for recycling. Procurement also exploring the possibility of securing further recyclers. Continue with the implementation process of the Energy Standard 50001. The site successfully managed the energy standard 50001. Energy management is ongoing set the site officient of the site officient of the site officient of the site successfully management is ongoing set the site officient of the site officient officient of the site officient officient of the site officient officient of the site officient off	80 Individual Continue with the recycling of polyethylene. The sourcing of more recycling contractors will be ongoing. In total 262.62 tonnes of polythene were sent off site for recycling. Procurement also exploring the possibility of securing further recyclers. Continue with the implementation process of the Energy Standard 50001. Individual It is proposed to upgrade existing septic tank systems where required. Septer tanks are continually being assessed and upgrade works scheduled where required. Septer tanks are continually being assessed and upgrade works scheduled where required. Septer tanks are continually being assessed and upgrade works scheduled where required.	80 Individual Management Practices 0 In total 262.62 tonnes of polyethylene. The sourcing of polyethylene. The sourcing of more recycling. Procurement also exploring the possibility of securing further recyclers. Improved Environmental Management Practices 0 Individual Management Practices 00 The site successfully managed the energy standard 50001. Energy management is ongoing at the site Improved Environmental Management Practices 100 Environmental Management Practices Management Practices	Image: Continue with the recycling of polyethylen. The sourcing of more recycling of polyethylen. The sourcing of more recycling. Procurement also exploring the possibility of securing further recyclers. Improved Environmental Management Practices Continue with the implementation process of the Energy Standard 50001. The site successfully management is ongoing at the site of t

Noise monitoring summary report	Lic No:	P0504-01	Year	2019
1 Was noise monitoring a licence requirement for the AER period?		No]	
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?	<u>Noise</u> Guidance note NG4	NA		
3 Does your site have a noise reduction plan		NA		
4 When was the noise reduction plan last updated?		Enter date		
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) sir noise survey?	ice the last	NA		

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (X/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT
								Ser No			
								Polite			
							28	Coce			
							dionet				
							-20° 0%				
							1. du				

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for four properties of the second secon

SELECT

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

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary	Lic No:	P0504-01	Y	'ear	2019
			Additional information		
1 When did the site carry out the most recent energy efficiency audit? Please list the recommendar	ions in table 3 below	Sep-19			
	SEAI - Large		The site secured accrediation to the		
Is the site a member of any accredited programmes for reducing energy usage/water conservatior	Industry Energy		energy standard		
2 such as the SEAI programme linked to the right? If yes please list them in additional information	Network (LIEN)	Yes	50001		
Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? P	lease state percentage		Not a Licence		

No

requirement

Table R1 Energy usag	e on site			
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	15225	7295	-58%	-52.00%
Total Energy Generated (MWHrs)				19 211
Total Renewable Energy Generated (MWHrs)			25 FOT
Electricity Consumption (MWHrs)	1639.399	195.114	-58	o ⁵ . c ^o -88
Fossil Fuels Consumption:			OUL	. dh
Heavy Fuel Oil (m3)			ion rr	o ,
Light Fuel Oil (m3)	1337.08	710.56	ect 11258	-46.00%
Natural gas (m3)			in Spato	
Coal/Solid fuel (metric tonnes)			cot top	
Peat (metric tonnes)			Y ar	
Renewable Biomass			A COL	
Renewable energy generated on site		msent	2	

in additional information

3

* 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

Table R2 Water usag				Water Emissions	Water Consumption		
						Volume used i.e not	
			Production +/- %	Energy		discharged to	
			compared to	Consumption +/- %	Volume Discharged	environment e.g.	
	Water extracted	Water extracted	previous	vs overall site	back to	released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	reporting year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
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

ſ	Resource	e Usage/Energy efficiency su	mmary			Lic No:	P0504-01	Year	2019
_		Table R3 Waste Stream	Summary						
			Total	Landfill	Incineration	Recycled	Other		
		Hazardous (Tonnes)	5.22			5.22			
		Non-Hazardous (Tonnes)	4497.11	0.52		265.83	4230.76		

Consent of convingition purposes only, any other use.

No: P0504-01	Year	2019
dicted energy		Status and
ings % Implementation date Res	sponsibility Completion date	comments
dicte ings	ed energy % Implementation date Re	ed energy % Implementation date Responsibility Completion date

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)					ંત
KWH per Litre of Process Water				, et	
KWH per Litre of Total Water used or	Site			oth	

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Complaints and Incidents summary template		Lic No:	P0504-01	Year	2019	
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	Yes	3 complaints in total all reported to	o the Agency			

			-											
Table	1 Complaints summary	1		1	1	I		-						
			Brief description of complaint	Corrective action< 20										
Date	Category	Other type (please specify)	(Free txt <20 words)	words	Resolution status	Resolution date	Further information							
			Dust affecting house	Both parties have	Complete	12/04/2019	Reported on Alder on							
11/04/2010	Air			agreed a resolution			U9/03/2019 Kel. NO.							
11/04/201.				agreed a resoundion		15/04/2019	Reported on Alder on	-						
			Moss and Algae growth on	RNM did not accost		13/04/2015	09/05/2019 Ref. No.							
14/04/2010	Air		Noss and Algae growth on	Liphility	Complete		1 P0/1025							
14/04/2015	AIr		house	Liability	Complete	20/05/2010	LRU41923	-						
						30/06/2019	Reported on Alder on							
				Both parties have	a		04/07/2019 Kel. NO.							
14/04/2019	Air		Dust affecting house	agreed a resolution	Complete		LR042889	1						
		_												
Total complaints														
open at start of														
reporting year	(0												
Total new								2.1						
complaints							e e	<u>o</u>						
received during							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
reporting year		3					nor							
Total complaints							of the							
closed during							1. 4							
reporting year		3				2	2 2,							
Balance of						02	1							
complaints end of						25 . 1								
reporting year	(0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								
						NO :NO								
						all'alle								
						N. Son								
		Inc	idents											
					Additional information	all'								
Have any incidents	occurred on site in the current repo	orting year? Please list all incidents for	r current reporting year in Table		20 A	1								
		2 below		Yes										
					· · · · · · · · · · · · · · · · · · ·									
*For informati	on on how to report and what				A 100									
*For informati	on on how to report and what stitutes an incident	What is an incident			FOLVIP									
*For informati con	on on how to report and what stitutes an incident	What is an incident			FOLDARD									
*For informati con Table 2 Incidents su	on on how to report and what stitutes an incident mmary	What is an incident			FORMER									
*For informati con Table 2 Incidents su	on on how to report and what stitutes an incident mmary	What is an incident]		For yies	Other								
*For informati con Table 2 Incidents su	on on how to report and what stitutes an incident mmary	What is an incident	Incident category*please refer		For just	Other cause(please	Activity in progress at				Res	solution	Resolution	Likelihood o
*For informati con Table 2 Incidents su Date of occurrence	on on how to report and what stitutes an incident mmary Incident nature	What is an incident	Incident category*please refer to guidance	Receptor	FOT JIS	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words Preventative a	Res action <20 words sta	solution	Resolution date	Likelihood o
*For informati con Table 2 Incidents su Date of occurrence 13/05/2019	on on how to report and what stitutes an incident mmary Incident nature Trigger level reached	What is an incident	Incident category*please refer to guidance 1. Minor	Receptor Water	HOLD THE	Other cause(please specify)	Activity in progress at time of incident No activity	Communication EPA Ref. No. INC1016473	Occurrence New	Corrective action<20 words Preventative a There was no activity NA	action <20 words sta	solution l	Resolution date	Likelihood o reoccurence
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Complaints and Incidents summar	r template			Lic No:	P0504-01		Year	201	9			
02/07/2019 Trigger level reached	SW 77A Corlea	1. Minor	Water	Not related to site activities		No activity	EPA Ref No. INCI016980	New	There was no activity upstream of this point that would lead to exceedance in trigger level, therefore	NA		
mber of									no corrective actions are	1	1	4
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ar	5											
otal number of												
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Waste Sum	mary Continued			Lic No:	P0504-01		Year	2019
European Waste Code (EWC)	Description of Waste (in line with applicable EWC code)	Hazardous – YES/NO	Quantity (Tonnes)	Name & Permit No. of Agent/Carrier	Treatment Type – Recovered / Disposed / Recycled	Name, Address & Licence/Permit No. of FINAL Destination	Country	
02 01 04	waste plastics (except packaging)	No	262.62	ADN Materials Ltd.WFP- MN-12-0001-04	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	ADN Materials Ltd., Lossetts, Carrickmacross, Co. Monaghan - WFP-MN-12-0001-04	Ireland	
13 02 05*	mineral-based non- chlorinated engine, gear and lubricating oils	Yes	3.2	Enva Ireland Limited (Portlaoise) - W0184	R01 - Use principally as a fuel or other means to generate energy	Enva Ireland Limited, Clonminam Industrial Estate, Portlaoise - W0184	Ireland	
15 01 01	paper and cardboard packaging	No	5.52	Mulleady's Limited (Drumlish) - W0169	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	Mulleady's Limited, Cloonagh Drumlish, Co. Longford - W0169	Ireland	
15 01 03	wooden packaging	No	1.66	AES Ltd WP-OY-08-601- 01	R01 - Use principally as a fuel or other means to generate energy	AESSTD, Cappincur, Tulamore, Co. Offaly - WP-OY- 98-601-01	Ireland	
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances	Yes	0.07	Enva Ireland Limited - L1745	R01 - Use principally as a fuel or other means to generate energy	Lindenschmidt, Kreutzal - Reg No: E97095037	Germany	
16 01 07*	oil filters	Yes	1.68	Enva Ireland Limited (Portlaoise) - W0184	R04 - Resycling/reclamation of metals	R.D. Recycling, Houthalen, Reg No: 51727/1KD	Belgium	
16 06 01*	lead batteries	Yes	0	Enva Ireland Limited (Portlaoise) - W0184	R04 - Recycling/reclamation of metals	Campine Recycling, Beerse - MLAV/05173/GVDA	Belgium	
11 01 13*	degreasing wastes containing hazardous substances	Yes	0.27	Safety Kleen Ireland Ltd - 🤇 W0099	R02 - Solvent reclamation/regeneration	Solvent Recovery Management, PP33345F, Wheeland Rd., Knottingly, West Yorks	UK	
13 05 03*	interceptor sludges	Yes	0	Enva Ireland Limited (Portlaoise) - W0184	R01 - Use principally as a fuel or other means to generate energy	Enva Ireland Limited, Clonminam Industrial Estate, Portlaoise - W0184	Ireland	
17 04 07	mixed metals	No	0.03	AES Ltd WP-OY-08-601- 01	R04 - Recycling/reclamation of metals and metal compounds	AES LTD, Cappincur, Tullamore, Co. Offaly - WP-OY- 08-601-01	Ireland	
20 03 01 A	Municipal mixed residual household	No	0.5	AES Ltd WP-OY-08-601- 01	D05 - Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)	AES LTD, Cappincur, Tullamore, Co. Offaly - WP-OY- 08-601-01	Ireland	
20 03 01 B	Municipal mixed residual non- household	No	19.38	AES Ltd WP-OY-08-601- 01	D05 - Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)	AES LTD, Cappincur, Tullamore, Co. Offaly - WP-OY- 08-601-01	Ireland	

20 01 21*	Household waste fluorescent lamps and other mercury containing waste	Yes	0	KMK Metals Recycling Ltd L2952	R04 - Recycling/reclamation of metals and metal compounds	KMK Metals Recycling Ltd, Cappincur Industrial Estate, Daingean Rd, Cappincur, Tullamore, Co. Offaly - L2952	Ireland
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Decommissioning and Rehabilitation

Bog Rehabilitation Progress Report 2019.

- Peatland rehabilitation was carried out in Corlea Bog. A small area (25 ha) was targeted in 2019 for drain-blocking. This site had been revegetating naturally and was re-wetted in 2018. Drain-blocking carried out to re-wet peat and encourage the development of wet peatland habitats and encourage natural colonisation of bare peat areas. It is currently a mosaic of bare peat and pioneer wetland habitats. Longford County Council are currently developing a cycling and walking track at Corlea.
- Bog restoration has been completed in Clonwhelan Bog (225 ha). This site forms part of the Bord na Mona Raised Bog Restoration Programme. This bog was drained but never fully developed. Peat dams have been inserted by an excavator to re-wet the peat, improve the condition of the overall bog and encourage the development of Sphagnum-rich active raised bog habitat. This bog is currently being considered for SAC/NHA designation by the NPWS as part of the National Raised Bog Special Area of Conservation Management Plan and the National Review of Raised Bog NHAs.
- Bog restoration is ongoing in Mostrim Bog (50 of 370 ha completed). Two
 excavators are currently operating at Mostrim Bog and carrying out bog
 restoration actions. This site forms, part of the Bord na Mona Raised Bog
 Restoration Programme. This bog was drained but never fully developed. Peat
 dams have been inserted by an excavator to re-wet the peat, improve the
 condition of the overall bog and encourage the development of *Sphagnum*-rich
 active raised bog habitat.
- Longford County Council are currently developing a cycling and walking track at Knappogue.
- The Edera Bog site rehabilitation plan was circulated to stakeholders and finalised in 2019. A rehabilitation trial was carried out at Edera Bog in 2019. Edera is a production bog with relatively deep residual peat in part. Its current status is bare peat. Drain-blocking was carried out to re-wet peat and encourage the development of wet peatland habitats and encourage natural colonisation of bare peat areas. I
- Planning for rehabilitation with walk-over surveys to update rehabilitation plans was carried out at Knappoggue Bog in 2019. There is ongoing natural colonisation and re-wetting at this bog.
- This year has seen significant changes in Bord na Móna. Bord na Móna's Brown to Green Strategy delivers on national and EU decarbonisation policies. This has driven a significant reduction in peat-milling volumes and operational footprint in Summer 2019 which in turn enables progression of de-commissioning and rehabilitation plans. It is planned to close West Offaly Power and Lough Ree

Power Stations by the end of 2020. Both stations were peat-fired and supplied by Bord na Móna. At a result, the industrial peat production bogs in Mountdillion that supplied these power stations will begin a programme of rehabilitation and decommissioning. It is expected that this programme will start in 2020. The Mountdillion bog group rehabilitation plans are currently being reviewed, updated and finalised as part of this process.

- The site rehabilitation plans for Derryadd, Derryarogue and Lough Bannow Bogs were updated to take account of a renewable energy development being proposed by Bord na Mona on these cutaway sites (Derryadd Windfarm).
- The majority of the Bord na Móna property in this bog group has been organically certified with the aim of using some areas for the cultivation of plants for use in herbal medicine into the future. This project in ongoing. Bord na Mona have committed not to use herbicides in organically certified areas to maintain industrial railways and other infrastructure.
- Draft rehabilitation plans for the Mountdillon bogs licensed area, including more detailed draft plans for each component bog unit were submitted to the EPA in 2013 and these were reviewed and updated in 2015 and 2017, and again submitted to the EPA May 2018.
- The new Biodiversity Action Plan (2016-2021) was launched in 2016 with the annual Biodiversity Action Plan review day being held in May 2018. This included an update on the progress of this plan, bog restoration and cutaway rehabilitation for a wide range on statutory and non-statutory consultees including members of the EPA, NPWS, BWI, Bord na Mona, Coillte, Inland Fisheries Ireland, An Taisce, IPCC, Irish Red Grouse Association, Irish Wildlife Trust, NARGC, local game councils, Midland Regional Planning Authority as well as a range of local community groups and Heritage Officers from counties Laois, Offaly, Kildare, Roscommon, Longford, Meath, Galway, Westmeath and Dublin.
- A copy of our Biodiversity Action Plan is available to view and download at http://www.bordnamona.ie/our-company/biodiversity/

			Bord na	Mona Mountdillon	Siltpond Monitoring Frequency & Results							
			IPPC L	icence P0504-01								
Х	Y	Bog	SW	Monitoring	Sampled	рН	SS	TS	Ammonia	TP	COD	Colour
210349.35	273925.60	Clooneeny	SW-60	Q1 19	06/02/2019	7	5	130	0.63	0.05	46	166
210544.96	273475.13	Clooneeny	SW-61	Q1 19	06/02/2019	7	5	124	0.98	0.05	75	224
210395.34	272549.20	Clooneeny	SW-62	Q1 19	06/02/2019	7.6	5	114	0.52	0.05	46	98
210626.21	272173.61	Clooneeny	SW-63	Q1 19	06/02/2019	7.6	5	120	0.22	0.05	60	129
209739.62	271940.65	Clooneeny	SW-65	Q1 19	06/02/2019	7.5	5	122	0.44	0.05	55	137
209556.46	272203.00	Clooneeny	SW-66	Q1 19	06/02/2019	7.2	5	116	0.16	0.05	71	295
204806.31	268664.26	Derryadd	SW-68	Q1 19	20/03/2019	7.3	5	225	0.08	0.05	90	266
207219.29	268277.37	Derryadd	SW-70	Q1 19	20/03/2019	6.3	5	128	0.58	0.05	56	134
207139.24	268700.31	Derryadd	SW-71	Q1 19	20/03/2019	7.5	5	252	0.26	0.05	41	189
207066.22	270009.38	Killashee	SW-71A	Q1 19	20/03/2019	7.3	5	186	0.02	0.06	74	182
206957.05	270175.39	Killashee	SW-71B	Q1 19	20/03/2019	7.6	5	248	0.14	0.05	76	191
206552.83	271606.89	Killashee	SW-71C	Q1 19	20/03/2019	7.3	5	210	0.46	0.05	51	144
195895.85	269701.45	Clonadra	SW-28	Q2 19	13/05/2019	7.3	5	244	0.33	0.05	82	306
196464.25	269128.74	Clonadra	SW-28A	Q2 19	13/05/2019	7.6	5	274	2.2	0.05	39	101
197386.00	269672.35	Clonadra	SW-29	Q2 19	13/05/2019	6.7	11 ي	144	0.02	0.06	93	256
197431.16	269547.71	Clonadra	SW-30	Q2 19	13/05/2019	7.5	5 5	283	0.04	0.05	66	189
195960.31	269910.87	Clonadra	SW-34	Q2 19			oth	No flow or ba	ick up.			
205704.47	264985.60	Derryadd	SW-73	Q2 19			1119° 2103	No flow or ba	ick up.			
206483.50	264717.84	Loughbannow	SW-74	Q2 19	20/05/2019	6.7	16	276	0.02	0.12	97	262
208383.69	266053.14	Loughbannow	SW-75	Q2 19	20/05/2019	6.8	set 5	184	0.25	0.05	25	95
209436.50	266841.89	Loughbannow	SW-76	Q2 19	20/05/2019	7.700,000	5	302	1.5	0.05	20	73
203032.90	265358.57	Derryshannoge	SW-79	Q2 19	20/05/2019	8.3 per	5	298	0.02	0.05	47	108
204109.47	264468.02	Derryshannoge	SW-80	Q2 19	20/05/2019	20 709	5	472	0.09	0.05	24	49
204202.83	265197.44	Derryshannoge	SW-83	Q2 19	20/05/2019	7.9	5	414	0.19	0.05	33	85
204246.77	265266.02	Derryshannoge	SW-84	Q2 19	×	023		No flow or ba	ick up.			
239153.00	272761.06	Milkernagh	SW-100	Q3 19	30/07/2018	7.7	5	264	0.03	0.13	60	150
238999.58	271185.82	Coolnagun Bog	SW-101	Q3 19	30/07/2019	6.7	5	178	0.09	0.1	91	298
238932.15	270926.89	Coolnagun Bog	SW-102	Q3 19	30/07/2019	8.0	5	449	0.02	0.1	22	38
237624.43	269656.41	Coolnagun Bog	SW-103	Q3 19	30/07/2019	7.6	5	320	0.03	0.07	34	54
236100.91	269178.31	Coolnagun Bog	SW-104	Q3 19	30/07/2019	6.7	5	368	0.8	0.1	94	327
238622.3	269573.1	Whites Bog	SW-105	Q3 19	30/07/2019	7.7	5	472	2.8	0.13	31	53
238547.6	269228.9	Whites Bog	SW-106	Q3 19	30/07/2019	7.8	5	424	0.04	0.15	50	89
		Whites Bog	SW-107	Q3 19	30/07/2019	8.1	5	470	0.14	0.08	45	74
		Whites Bog	SW-108	Q3 19	30/07/2019	8.0	5	476	0.12	0.11	62	126
		Whites Bog	SW-109	Q3 19	30/09/2019	7.7	2	341	0.782	0.05	71	305
		Cuilcraff	SW-110	Q3 19	30/07/2019	7.8	5	458	0.13	0.08	52	128
		Cuilcraff	SW-111	Q3 19	30/09/2019	7.8	2	393	0.046	0.05	72	259
		Cuilcraff	SW-112	Q3 19	30/09/2019	7.4	2	249	0.054	0.05	90	426
209520.92	261717.87	Loughbannow	SW-77	Q4 19				No flow or ba	ck up.			
210699.18	261574.22	Corlea	SW-77A	Q4 19	13/11/2019	7.6	2	374	0.046	0.05	47	156
207855.20	263302.19	Loughbannow	SW-78	Q4 19	07/11/2019	7.5	12	283	1.36	0.05	40	260
205488.20	261055.08	Derrycolumb	SW-88	Q4 19	07/11/2019	7.6	9	260	1.7	0.05	45	249
206320.96	260736.89	Derrycolumb	SW-88A	Q4 19	07/11/2019	7.7	12	185	0.163	0.05	43	310
206675.47	260347.41	Derrycolumb	SW-89	Q4 19	07/11/2019	7	5	85	0.409	0.05	37	216

209457.03	259759.30	Derrycolumb	SW-90	Q4 19	07/11/2019	7.9	7	264	0.255	0.05	53	257
207371.13	259735.70	Derrycolumb	SW-91	Q4 19	07/11/2019	7.8	7	309	0.107	0.05	65	251
208445.3	261154.8	Derrycolumb	SW91-A	Q4 19	07/11/2019	7.3	6	213	0.094	0.05	82	396
208008.49	259636.58	Derrycolumb	SW-92	Q4 19	13/11/2019	7.8	3	360	0.107	0.05	72	232
206651.08	262095.91	Derrycolumb	SW-93	Q4 19	13/11/2019	7.4	2	233	0.112	0.05	85	339
206995.27	262194.95	Derrycolumb	SW-93A	Q4 19	13/11/2019	7.40	2	257	0.315	0.05	51	128

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Corlea bog is an in-active production bog with the composite sampler located in this bog in March 2017 and it remains at this location for the reporting period 2019. This bog cease production in 2017 and did not resume in 2018 or 19. Since production ceased the bog has been in a decommissioning and rehabilitation phase with rewetting occurring in 2018 and 2019. The composite sampler takes a flow proportional composite sample over a 24-hour period but had 44% downtime during the period due to periods when there was no summer discharge, water was backed up in the Winter/Spring seasons from river fluvial flooding or for technical issues. During most of these technical events, grab samples were taken. The ammonia trigger level of 1.42mg/l, as agreed with the Agency, was not exceeded during the reporting period. Overall the results are maintaining a slight downward trend as rehabilitation continues and this is inline with the downwards trends submitted to the EPA in 2013 as required by condition 6.14. It has been established that the most relevant influencing variable on Ammonia is rainfall and activities, so due to lower rainfall levels in 2019 and rewetting of sections of the bog as required under condition 10, ammonia levels are reducing

The sampler at this location may be relocated to fill any information gaps on other peatland catchments and to reflect the need to support the information gathering required for the Water Framework Directive's River Basin Management Plan, or maybe retained to track levels as rehabilitation and rewetting continues to result in stabilization of the bog. There is also an EPA lead research project commencing in 2019, called the SWAMP project, whose aims are to appraise and understand the nutrient impact from peatlands, to evaluate treatment technologies and to propose predictive tools for watershed management.

Extractive Waste Management Plan Implementation AER Update 2019

March 2020.

IPC Licence P0504-01.

1.0 Extractive Wastes.

Waste classified as extractive waste from peat extraction operations arise from three operations associated with this activity.

- Silt Pond excavations and maintenance
- Power Station Screenings
- Bog Timbers

There has been no change to the type and nature of these three waste streams and no new waste streams added to this list. These wastes streams continue to be stored and maintained at between 1 and 3 metres in height.

2.0 Condition 7.5 Extractive Waste Management

- An extractive waste management plan (EWMP) was submitted to the Agency in September 2012 and was approved.
- The EWMP was reviewed in September 2017. There were no substantial changes to the
 operation of the plan, associated waste facilities or to the waste deposited. The EWMP will be
 reviewed again in September 2022. At this stage, it is envisaged that many of the bogs will be in
 a decommissioning and rehabilitation phase, which will see the generation of bog timbers from
 production cease. In addition, and depending on the progress with bog stabilisation and
 rehabilitation, silt generation will be significantly reducing, which will lead to reduced volumes
 to be removed from the silt ponds.
- Lough Ree Power will be ceasing operation at the end of 2020, so beyond this there will be no further generation of power station screenings.

3.0 Minimisation

- The IPC Licence has various conditions that require the installation, inspections and maintenance of silt ponds for operational areas and as such these requirements dictate the need for silt ponds and associated excavation materials and cleanings.
- Peat screenings are a factor of the screening process with Lough Ree Power Ltd as these oversized bog timbers, stones and peat cannot be utilised in the power station.
- Bog timbers arise from the active production footprint and are naturally occurring. The active footprint is dictated by the peat production targets and customer supply contract and service level agreements.

4.0 Treatment

- Silt pond excavation and maintenance materials do not require any treatment and are stored as per the EWMP, adjacent to the associated silt pond.
- The factory screenings are permitted to be returned to the bog as they were naturally occurring materials from the bog, and as such do not require any treatment to serve this purpose.
- There is no treatment of bog timbers arising and these are stockpiled at various locations in associated bogs.

5.0 Recovery

- As per the EWMP, there is still no opportunity to recover these silt pond associated materials.
- Given the nature of these screenings as outlined in the EWMP, there is no further use identified, other than the permitted reuse of these natural materials in areas that required improvement for trafficking purposes.
- Bog timbers stored on the bog are natural to the peat bog and while there have been trails to recover this waste material, these have not proved viable.

6.0 Disposal

- Silt pond cleanings continue to be disposed of adjacent to the associated silt pond and will be incorporated back into the rehabilitation plans for these bogs, post production and decommissioning.
- Schedule 3 (ii) of this IPC Licence permits the disposal of peat screenings to the bog at designated locations agreed under Condition 7.4 and this continues to be the case.
- Bog timbers will continue to be stockpilled at suitable locations to be either incorporated back into the bog, as a supply of bog timbers for the crafting industry or will continue to decay naturally.