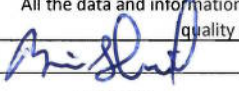
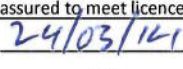


Facility Information Summary	
AER Reporting Year	2013
Licence Register Number	P0395-03
Name of site	Pfizer Nutritionals Ireland Limited.
Site Location	Askeaton, Co. Limerick
NACE Code	1051
Class/Classes of Activity	7.2.1 and 2.1
National Grid Reference (6E, 6 N)	-8.98170 52.6091
A description of the 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 <b>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.</b>	<p>Pfizer Nutritionals Ireland Ltd. t/a Wyeth Nutritionals Ireland is one of Europe's leading producers of infant and child nutritional products. Established in 1974, this world-class facility is one of the largest purpose-built infant nutritional production facilities in the world. The plant produces both powdered formulas and a liquid ready-to-feed range of products. with an annual production capacity of 50 million kilograms. More than a third of the company's output goes to Europe - mostly to the UK, with the remainder being shipped to markets in the Middle East, Africa, Asia, Australia and Latin America.</p> <p>Output from the plant in 2013 decreased by 13% when compared with the production output for 2012. Changes were also made to production scheduling resulting in shorter drier runs with a corresponding increase in demand for water, energy and wastewater discharged. There were no major infrastructural changes to the site, however in line with the site's environmental policy a number of initiatives were implemented as part of the 2013 environmental management programme in the areas of water use, waste generation and energy consumption resulting in an improvement to the overall environmental performance of the site. There were no exceedances of licence limits.</p>

**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.

	
Signature Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small>	Date

<b>AIR-summary template</b>	Lic No:	P0395-03	Year	2013
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Answer all questions and complete all tables where relevant

Additional information

- 1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current 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 do not need to complete the tables

Yes	
-----	--

### Periodic/Non-Continuous Monitoring

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

No	
----	--

- 3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

Yes	
-----	--

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
A1-1	Nitrogen oxides (NOx/NO2)	Biannually	300	100 % of values < ELV	Min. 193.6 Max. 229.3	mg/Nm3	yes	EN 14792:2005		
A1-1	volumetric flow	Biannually			26401	Nm3/hour		ESTIMATE		
A1-2	Nitrogen oxides (NOx/NO2)	Biannually	200	100 % of values < ELV	121.9	mg/Nm3	yes	EN 14792:2005		
A1-2	Carbon monoxide (CO)	Biannually	100	100 % of values < ELV	47.7	mg/Nm3	yes	EN 15058:2004		
A1-2	volumetric flow	Biannually			4713	Nm3/hour		EN 13284-1		
A1-4	Nitrogen oxides (NOx/NO2)	Biannually	200	100 % of values < ELV	81.3	mg/Nm3	yes	EN 14792:2005		
A1-4	Carbon monoxide (CO)	Biannually	100	100 % of values < ELV	95.1	mg/Nm3	yes	EN 15058:2004		
A1-4	volumetric flow	Biannually			2729	Nm3/hour		EN 13284-1		
A2-1	Total Particulates	Quarterly	50	100 % of values < ELV	Min. 11.53 Max 34.11	mg/Nm3	yes	EN 13284-1		
A2-1	volumetric flow	Quarterly			Min. 32756 Max. 36494	Nm3/hour		EN 13284-1		
A2-3	Total Particulates	Quarterly	50	100 % of values < ELV	Min. 13.05 Max. 28.34	mg/Nm3	yes	EN 13284-1		
A2-3	volumetric flow	Quarterly			Min. 73731 Max. 79174	Nm3/hour		EN 13284-1		

AIR-summary template			Lic No: P0395-03		Year 2013					
A2-4	Total Particulates	Quarterly	50	100 % of values < ELV	Min. 9.66 Max. 41.13	mg/Nm3	yes	EN 13284-1		
A2-4	volumetric flow	Quarterly			Min. 88814 Max. 99293	Nm3/hour		EN 13284-1		
A2-6	Total Particulates	Quarterly	50	100 % of values < ELV	Min. 12.8 Max. 24.84	mg/Nm3	yes	EN 13284-1		
A2-6	volumetric flow	Quarterly			Min. 93009 Max. 104003	Nm3/hour		EN 13284-1		
	Total Particulates								20735	-29% due to reduced production output.
	Nitrogen oxides (NOx/NO2)								46907	+22% due to CHP Plant
	Carbon monoxide (CO)								18406	-2%
	SELECT			SELECT		SELECT	SELECT	SELECT		

Note 1: Volumetric flow shall be included as a reportable parameter

<b>AIR-summary template</b>	Lic No: P0395-03	Year: 2013
<b>Continuous Monitoring</b>		

4 Does your site carry out continuous air emissions monitoring?  
 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

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7 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 reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

**Table A3: Abatement system bypass reporting table** [Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

\* 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

**Solvent use and management on site**

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

SELECT

<b>Table A4: Solvent Management Plan Summary</b>	<a href="#">Solvent regulations</a> Please refer to linked solvent regulations to complete table 5 and 6
<b>Total VOC Emission limit value</b>	

Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance
					SELECT
					SELECT

Table A5: Solvent Mass Balance summary								
	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
Total								

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: P0395-03 Year 2013

<p>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. <b>If you do not have</b> licensed emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections</p>	Additional information
Yes	
<p>2 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 <u>only</u> any evidence of contamination noted during visual inspections</p>	
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*	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
			SELECT		
			SELECT		

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

<p>3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>	Additional information
No	
<p>4 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</p> <p><a href="#">External/Internal Lab Quality checklist</a> <a href="#">Assessment of results checklist</a></p>	
Yes	

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

Emission reference no:	Emission released to	Parameter/ Substance <sup>Note 1</sup>	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof <sup>Note 2</sup>	Licence 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	Toxicity	composite	Annual	24 hour	5	All results < 1.2 x ELV	<2.2	TU	yes	Toxicological Analysis	ISO	11348-3:2007		

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

## AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Lic No: P0395-03

Year

2013

## Continuous monitoring

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

	Additional Information
Yes	

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

No	
----	--

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

No	
----	--

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 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
SW1	Water	volumetric flow	2800	24 hour	No flow value shall exceed the .specific limit	m3/day		-5	0	0	When comparing year on year annual emissions the volume of wastewater discharged reduced due to water usage reduction measures implemented on site. However, other chemical parameters increased due to changes in production operations where the frequency of CIPs increased.
SW1	Water	pH	6 - 9	24 hour	No pH value shall deviate from the .specified range	pH units			0	0	
SW1	Water	BOD	40	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	8999	+47	0	0	
SW1	Water	Suspended Solids	50	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	11449	+11	0	0	
SW1	Water	Total nitrogen	15	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	3458	+155	0	0	Increase was due to changes in production processing and development of a strategy to optimise urea dosing in the wastewater treatment plant.
SW1	Water	Ammonia (as N)	10	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	1181	+37	0	0	
SW1	Water	Total phosphorus	1.5	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	160	+22	0	0	
SW1	Water	Ortho-phosphate (as PO4)	0.75	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	41	-	0	0	Parameter was not measured in 2012
SW1	Water	Fats, Oils and Greases	15	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	2885	-5	0	0	5 mg/l limit of detection was used to estimate the annual emission.
SW1	Water	COD	-	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	20876	+3	0	N/A	

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

## AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Lic No: P0395-03

Year

2013

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	

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



**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)

- 1
- 2 Please provide integrity testing frequency period
- 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
- 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?

Yes	
3 years	
Yes	
26	
26	
1	
Yes	
1	
9	
9	
Yes	
Yes	
N/A	

**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)
Bund No. 10	general purpose concrete/masonry		Mix product	176	48.4	Hydraulic test		22/07/2013	Yes	Fail	Floor fracture	Temporary repair	Jul-14	
Bund No. 11	general purpose concrete/masonry		Mix product	242	72.6	Hydraulic test		22/07/2013	Yes	Fail	Floor fracture	Temporary repair	Jul-14	

\* Capacity required should comply with 25% or 100% containment rule as detailed in your licence

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

[bundling and storage guidelines](#)

Yes	EPA Guidance
Yes	
Yes	

- 16 Are channels/transfer systems to remote containment systems tested?
- 17 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**

- 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)

Yes	
3 years	

**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)
F8	Foul	concrete	No	SELECT	Combination	Yes	Fail	Benching fractured	Replace with SS structure	Oct-13	Pass
F11	Foul	Stainless steel	No		Combination	Yes	Fail	Fractures	Repair fractures	Oct-13	Pass
F22	Foul	concrete	No		Combination	Yes	Fail	Benching fractured	Repair benching	Nov-13	Pass
F23	Foul	concrete	No		Combination	Yes	Fail	Benching fractured	Repair benching	Nov-13	Pass
F24	Foul	concrete	No		Combination	Yes	Fail	Benching fractured	Repair benching	Nov-13	Pass
F35	Process	concrete	No		Combination	Yes	Fail	Fractures	Made redundant	Oct-13	N/A
F36	Process	concrete	No		Combination	Yes	Fail	Fractures	Made redundant	Oct-13	N/A
F37	Process	concrete	No		Combination	Yes	Fail	Fractures	Repair fractures	Nov-13	Pass
F57	Process	concrete	No		Combination	Yes	Fail	Required plastering	Plastered	Oct-13	Pass
F219	Process	concrete	No		Combination	Yes	Fail	Fractures		Jul-14	
F35 to F36	Process	ceramic	No		Combination	Yes	Fail	Fractures	Made redundant	Oct-13	N/A
F59 to F61	Foul	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	
F59 to F59a	Process	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	
FG to S9a	Process	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	
F60 to F61	Foul	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	
F220 to ML	Foul	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	
F221 to ML	Foul	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	

**Bund/Pipeline testing template** Lic No: P0395-03 Year 2013

F60 to F220	Foul	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	
F220 to F221	Foul	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	
F220 to F61	Foul	ceramic	No		Combination	Yes	Fail	Unknown		Jul-14	
F218 to F222	Process	pvc	No		Combination	Yes	Fail	Fractures	Repaired using patch	Oct-13	Pass
F222 to CG Sump	Process	pvc	No		Combination	Yes	Fail	Fractures		Jul-14	
TC to F37a	Process		No		Combination	Yes	Fail	Grout missing		Jul-14	

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

<b>Groundwater/Soil monitoring template</b>	Lic No: P0395-03	Year 2013
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		Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	
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	no	
4	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 <a href="#">Groundwater monitoring template</a> Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	yes	Quality of groundwater is impacted by the nearby River Deel estuary.
5	Is the contamination related to operations at the facility (either current and/or historic)	no	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A	
7	Please specify the proposed time frame for the remediation strategy	N/A	
8	Is there a licence condition to carry out/update ELRA for the site?	yes	
9	Has any type of risk assessment been carried out for the site?	yes	
10	Has a Conceptual Site Model been developed for the site?	yes	
11	Have potential receptors been identified on and off site?	yes	
12	Is there evidence that contamination is migrating offsite?	no	Analytical results from the 2013 monitoring rounds were in line with those of previous monitoring rounds. Monitoring was completed in accordance with the site's IPPC licence requirements and is reported in accordance with Stage 1 - Step 2 of the EPA's draft Irish Contaminated Land/Groundwater Framework, issued in May 2012. The site is underlain by Waulsortian limestone, with subsoils ranging from 1.5 to 4 m thickness across the site. The inferred groundwater flow direction in the limestone bedrock aquifer, as measured on 16 September 2013 is to the east towards the River Deel. This is consistent with previous monitoring at the site. Field measurements of water quality parameters and redox indicators were also consistent with previous rounds and indicate that dissolved oxygen concentrations in groundwater are low to moderate and groundwater is mainly reducing. In September 2013, major ion results were within previously observed ranges for the site. Similar to previous monitoring rounds several major ions exceeded assessment criteria. Elevated concentrations of chloride and sodium in groundwater at several wells are likely to reflect the site's coastal setting. Based on the current site status and monitoring data, it is considered there is a limited degree of mixing between groundwater and surface water bodies close to the River Deel estuary. During high tide in the river, the gradient of water flow is expected to be from the river outwards to the surrounding limestone aquifer, reversing under low tide conditions.

**Table 1: Upgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	IGV	Upward trend in pollutant concentration over last 5 years of monitoring data
11/03/2013	BH201	pH	pH probe	Biannual	7.51	7.41	pH units	N/A	N/A	no
16/11/2013	BH201	COD	Colourimetric	Biannual	22	14.5	mg/l	N/A	N/A	no
16/11/2013	BH201	Calcium	ICP-OES	Biannual	125	87.1	mg/l	N/A	200	no
11/03/2013	BH201	Iron (dissolved)	ICP-OES	Biannual	<0.02	<0.02	mg/l	N/A	0.2	no
16/11/2013	BH201	Magnesium	ICP-OES	Biannual	13	10.5	mg/l	N/A	50	yes
11/03/2013	BH201	Manganese (dissolved)	ICP-OES	Biannual	0.017	0.01	mg/l	N/A	0.05	no

Groundwater/Soil monitoring template				Lic No:	P0395-03	Year	2013			
16/11/2013	BH201	Potassium	ICP-OES	Biannual	10	7.5	mg/l	N/A	5	yes
16/11/2013	BH201	Sodium	ICP-OES	Biannual	623	337.5	mg/l	150	150	yes
16/11/2013	BH201	Total Alkalinity (CaCO <sub>3</sub> )	Metrohm	Biannual	210	171	mg/l	N/A	N/A	no
16/11/2013	BH201	Chloride	Aquakem	Biannual	1047	549.3	mg/l	187.5	30	yes
11/03/2013	BH201	Nitrate (as NO <sub>3</sub> )	Aquakem	Biannual	5.5	5.2	mg/l	37.5	25	no
11/03/2013	BH201	Nitrite (as NO <sub>2</sub> )	Aquakem	Biannual	<0.02	<0.02	mg/l	0.375	0.1	no
11/03/132	BH201	Orthophosphate	Aquakem	Biannual	<0.06	<0.06	mg/l	N/A	0.03	no
16/11/2013	BH201	Sulphate as SO <sub>4</sub>	Aquakem	Biannual	19	17.4	mg/l	187.5	200	yes
11/03/2013	BH201	Fluoride	Dionex	Biannual	<0.3	<0.3	mg/l	N/A	1	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	GTV's*	IGV	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
11/03/2013	BH203	pH	pH probe	Biannual	8.87	8.2	pH units	N/A	N/A	no
11/03/2013	BH203	COD	Colourimetric	Biannual	8	7.5	mg/l	N/A	N/A	no
16/11/2013	BH203	Calcium	ICP-OES	Biannual	82	66	mg/l	N/A	200	no
11/03/2013	BH203	Iron (dissolved)	ICP-OES	Biannual	2.687	1.82	mg/l	N/A	0.2	no
11/03/2013	BH203	Magnesium	ICP-OES	Biannual	9.4	8.7	mg/l	N/A	50	no
11/03/2013	BH203	Manganese (dissolved)	ICP-OES	Biannual	1.031	0.833	mg/l	N/A	0.05	no
16/11/2013	BH203	Potassium	ICP-OES	Biannual	15	14.4	mg/l	N/A	5	yes
11/03/2013	BH203	Sodium	ICP-OES	Biannual	61.7	59.8	mg/l	150	150	no
16/11/2013	BH203	Total Alkalinity (CaCO <sub>3</sub> )	Metrohm	Biannual	328	239	mg/l	N/A	N/A	no
11/03/2013	BH203	Chloride	Aquakem	Biannual	58.6	55.8	mg/l	187.5	30	yes
16/11/2013	BH203	Nitrate (as NO <sub>3</sub> )	Aquakem	Biannual	2	1.8	mg/l	37.5	25	no
11/03/2013	BH203	Nitrite (as NO <sub>2</sub> )	Aquakem	Biannual	0.17	0.095	mg/l	0.375	0.1	yes
16/11/2013	BH203	Orthophosphate	Aquakem	Biannual	0.51	0.28	mg/l	N/A	0.03	no
16/11/132	BH203	Sulphate as SO <sub>4</sub>	Aquakem	Biannual	49	40.7	mg/l	187.5	200	no
11/03/2013	BH203	Fluoride	Dionex	Biannual	<0.03	<0.03	mg/l	N/A	1	no

Groundwater/Soil monitoring template	Lic No: P0395-03	Year: 2013
<p>*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.</p>	<p><a href="#">Groundwater monitoring template</a></p>	
<p>More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)</p>	<p><a href="#">Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).</a></p>	
<p>**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)</p>	<p> <a href="#">Groundwater</a> <a href="#">Drinking water</a>  <a href="#">Surface</a> <a href="#">regulations</a> <a href="#">(private supply)</a> <a href="#">Drinking water (public</a> <a href="#">Interim Guideline</a>  <a href="#">water EQS</a> <a href="#">GTV's</a> <a href="#">standards</a> <a href="#">supply) standards</a> <a href="#">Values (IGV)</a> </p>	

**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

## Environmental Liabilities template

Lic No:

P0395-03

Year

2013

[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	€ 542,000	
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	All liabilities (known and unknown)	
6	Financial Provision for ELRA - type	Other please specify	Financial Security Agreement
7	Financial provision for ELRA expiry date	No date specified.	
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	All liabilities (known and unknown)	
12	Financial Provision for Closure - type	Other please specify	Financial Security Agreement
13	Financial provision for Closure expiry date	No date specified.	

<b>Environmental Management Programme/Continuous Improvement Programme template</b>	Lic No:	P0395-03	Year	2013
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	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 System certified to the ISO 14001:2004 standard.
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
Additional improvements	1. Improvements in WW laboratory QA and QC. 2. Develop and document a startegy to improve the dosing of urea.	50	The dosing of urea was varied in order to reach an optimum dose rate for improved plant performance. The startegy for optimum performance was then documented.	Section Head	Improved Environmental Management Practices
Energy Efficiency/Utility conservation	Reduce water volume use by 4% per kg of product compared with water usage during 2012	40	Tasks completed: WTP sand filter backwash optimisation, Disinfectant improvements in CWS to reduce blowdown, Increase % solids in compounding, Optimise CIP's, Adjust seal water supply to evap. Vacuum pumps. Other tasks started but npt cpmpleted.	Section Head	Improved Environmental Management Practices
Noise reduction	Identify and implement measures necessary to minimise noise from site operations.	80	Survey completed for noise monitoring and control programme.	Section Head	Less complaints
Additional improvements	Reduce chemical use	70	Tasks Completed include: Reduction in caustic and acid concentrations in CIPs, Reduce poly and alum dsosing, Reduce salt use in softener regeneration.	Section Head	Improved Environmental Management Practices



Environmental Management Programme/Continuous Improvement Programme template				Lic No:	P0395-03	Year	2013
Waste reduction/Raw material usage efficiency	Reduce waste generation and divert waste from landfill	50	The following waste was diverted from landfill: Raw material packaging, Waste from RTF operation and waste from samples/trials.	Section Head	Improved Environmental Management Practices		

## Noise monitoring summary report

Lic No: P0395-03

Year

2013

1 Was noise monitoring a licence requirement for the AER period?

Yes

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?

[Noise Guidance note NG4](#)

Yes

3 Does your site have a noise reduction plan

Yes

4 When was the noise reduction plan last updated?

29/08/2013

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

No

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)?
28/08/2013	Day		NSL1	42	39	44	57	No		Local traffic, birds, planes, low level steady plant noise.	Yes
28/08/2013	Day		NSL2	60	41	62	87	No		Traffic noise from N69, local traffic. Birds singing, trees rustling. Plant not audible.	Yes
29/08/2013	Day		NSL3	64	44	65	89	No		Traffic noise from N69 and local traffic. Dog barking. Birds, trees rustling. Plant not audible.	Yes
28/08/2013	Day		NSL4	56	42	55	79	No		Traffic noise from N69 and local traffic. Crows, other birds & trees rustling. Plant occasionally but barely audible.	Yes
28/08/2013	Day		NSL5	50	36	52	72	No		Distant traffic N69. Local traffic. Birds. Plant not audible.	Yes
28/08/2013	Day		NSL6	48	36	51	66	No		Distant traffic noise. Birds dogs barking continuously. Low level steady plant noise.	Yes
28/08/2013	Day	BW		53	40	50	73	No		Distant traffic noise N69, local traffic. Birds & planes. Steady low level plant noise.	
28/08/2013	Evening		NSL1	52	36	43	78	No		Local traffic. Distant traffic. Birds. Steady low level plant noise in traffic lulls.	Yes

28/08/2013	Evening		NSL2	60	42	60	82	No		Traffic N69, local traffic, dogs barking. Low level plant noise barely audible here.	Yes
28/08/2013	Evening		NSL3	59	42	60	80	No		N69 Traffic noise, local traffic. Plant not audible here.	Yes
28/08/2013	Evening		NSL4	61	45	58	87	No		Local and N69 traffic noise. Dogs barking. Steady low level plant noise audible in traffic lulls.	Yes
28/08/2013	Evening		NSL5	48	38	47	71	No		Distant, local traffic noise. Birds. Plant barely audible	Yes
28/08/2013	Evening		NSL6	40	38	41	50	No		Distant traffic noise. Steady low level plant noise.	Yes
28/08/2013	Evening	BW		53	42	45	78	No		Traffic N69, local traffic, low level plant noise audible here.	Yes
28/08/2013	Night		NSL1	41	39	43	54	No		Steady plant noise. Distant occasional traffic.	Yes
28/08/2013	Night		NSL2	51	35	51	74	No		N69 & local traffic. Steady low level plant noise audible only in traffic lulls.	Yes
29/08/2013	Night		NSL3	47	43	46	74	No		Ventilation noise at nursing home. Distant traffic noise. Plant not audible.	Yes
29/08/2013	Night		NSL4	44	41	45	56	No		N69 and local traffic. Dogs barking. Steady low level plant noise audible in traffic lulls	Yes
29/08/2013	Night		NSL5	39	37	40	61	No		Plant faintly but steadily audible. Distant traffic noise. Barking dog.	Yes
29/08/2013	Night		NSL6	38	37	39	46	No		Steady plant noise. Distant traffic.	Yes
29/08/2013	Night	BW		45	42	47	56	No		Steady plant noise. Distant 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?

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:

P0395-03

Year

2013

## Additional information

- 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

Enter date of audit	On-going
Yes	LIEN
Yes	<1

Table R1 Energy usage on site				
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	206947	196886	-12.8	+9
Total Energy Generated (MWHrs)	41839	40813		
Total Renewable Energy Generated (MWHrs)	0	0		
Electricity Consumption (MWHrs)	915	1188		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0	0		
Light Fuel Oil (m3)	12.56	12.51		
Natural gas (m3)	17807228	16838230		
Coal/Solid fuel (metric tonnes)	0	0		
Peat (metric tonnes)	0	0		
Renewable Biomass	0	0		
Renewable energy generated on site	0	0		

\* 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 usage on site					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Water Consumption +/- % vs overall site production*	Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater	0	0					
Surface water	863834	803463			742440	Not available	61023
Public supply	0	0					
Recycled water	0	0					
Total	863834	803463	-12.8	+6.7	742440		

\* 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

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	46.618			28.064	18.554
Non-Hazardous (Tonnes)	4892.668	569		4323.668	

<b>Resource Usage/Energy efficiency summary</b>	Lic No: P0395-03	Year	2013
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Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
Mar-13	RTF HVAC optimisation	Optimise HVAC in RTF and lab areas using VSD and installing setback mode for out of hours	energy audit	0.25%	30-Jun-13	Engineering Manager	30-Jul-13	Completed
Mar-13	Warehouse HVAC optimisation	Optimise HVAC control strategy in warehouse using variable speed drives	energy audit	0.25%	30-Jul-13	Engineering Manager	30-Aug-13	Completed
Apr-13	Steam trap upgrade	Replace passing steam traps in process areas	energy audit	1.00%	30-Jun-13	Engineering Manager	10-Jul-13	Completed

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	CHP				
Primary Fuel	NATURAL GAS				
Thermal Efficiency	53%				
Unit Date of Commission	Nov-04				
Total Starts for year	Not available				
Total Running Time	Not available				
Total Electricity Generated (GWH)	41.8				
House Load (GWH)	31.7				
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					



**Complaints and Incidents summary template**      Lic No: P0395-03      Year: 2013

Total number of incidents previous year	
% reduction/increase	





**WASTE SUMMARY** Lic No: P0395-03 Year 2013

**Table 4 Environmental monitoring-landfill only** [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments

+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

**Table 5 Capping-Landfill only**

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

9 Is leachate from your site treated in a Waste Water Treatment Plant?

SELECT

10 Is leachate released to surface water? If yes please complete leachate mass load information below

SELECT

Volume of leachate in reporting year(m3)	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

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

**Table 7 Landfill Gas-Landfill only**

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

Comments on liner type





Environmental Protection Agency

| PRTR# : P0395 | Facility Name : Pfizer Nutritionals Ireland Limited | Filename : P0395\_2013.xls  
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[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.18

<b>REFERENCE YEAR</b>	2013
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Pfizer Nutritionals Ireland Limited
Facility Name	Pfizer Nutritionals Ireland Limited
PRTR Identification Number	P0395
Licence Number	P0395-03

### Waste or IPPC Classes of Activity

No.	class_name
7.2.1	The treatment and processing of milk, the quantity of milk received being greater than 200 tonnes per day (average value on a yearly basis).
2.1	The operation of combustion installations with a rated thermal input equal to or greater than 50MW

Address 1	Askeaton
Address 2	County Limerick
Address 3	
Address 4	
	Limerick
Country	Ireland
Coordinates of Location	-8.98170 52.6091
River Basin District	IEGBNISH
NACE Code	1051
Main Economic Activity	Operation of dairies and cheese making
<b>AER Returns Contact Name</b>	Brian Shiel
<b>AER Returns Contact Email Address</b>	brian.shiel@wyethnutrition.com
<b>AER Returns Contact Position</b>	SH&E Lead
<b>AER Returns Contact Telephone Number</b>	061 601 307
<b>AER Returns Contact Mobile Phone Number</b>	087 130 4522
<b>AER Returns Contact Fax Number</b>	061 392 440
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	600
<b>User Feedback/Comments</b>	Hazardous waste quantities increased in 2013 compared to 2013 due to the installation of new storage vessels. Certain paramaters in wastewater emissions increased due to changes in production scheduling.
<b>Web Address</b>	

## 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
8(c)	Treatment and processing of milk
1(c)	Thermal power stations and other combustion installations

## 3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

## 4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No
--	----

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR#: P0395 | Facility Name : Pfizer Nutritionals Ireland Limited | Filename : P0395\_2013.xls | Return Year : 2013 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs				QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	A1-1 Emission Point 1	A1-2 Emission Point 2	A1-4 Emission Point 3	Site Emission Point 4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
02	Carbon monoxide (CO)	C	OTH	Calculated from biannual monitoring of boilers (ISO 12039) and estimation of anticipated emissions from the CHP Plant.	18393.0	318.0	25.0	0.0	18736.0	0.0	0.0
03	Carbon dioxide (CO2)	C	ETS		0.0	0.0	0.0	36273710.0	36273710.0	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	ISO 10849:1996		37248.0	928.0	220.0	0.0	38396.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Please enter summary data on the quantities of methane flared and / or utilised	Pfizer Nutritionals Ireland Limited				
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

[ PRTR# : P0395 | Facility Name : Pfizer Nutritionals Ireland Limited | Filename : P0395\_2013.xls | Return Year : 2013 ]

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

POLLUTANT		RELEASURES TO WATERS			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		QUANTITY			
			Method Code	Designation or Description	SW1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
12	Total nitrogen	M	OTH	Colorimetric Hach Method 1007	3458.1	3458.1	0.0	0.0
13	Total phosphorus	M	OTH	Colorimetric Hach Method 8190	160.6	160.6	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION B : REMAINING PRTR POLLUTANTS**

POLLUTANT		RELEASURES TO WATERS			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		QUANTITY			
			Method Code	Designation or Description	SW1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)**

POLLUTANT		RELEASURES TO WATERS			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	Method Used		QUANTITY			
			Method Code	Designation or Description	SW1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	M	OTH	Colorimetric Hach Method 10031	1181.1	1181.1	0.0	0.0
303	BOD	M	OTH	5-day BOD Test	8998.7	8998.7	0.0	0.0
314	Fats, Oils and Greases	E	ESTIMATE		2884.7	2884.7	0.0	0.0
306	COD	M	OTH		20876.9	20876.9	0.0	0.0
240	Suspended Solids	M	OTH	Standard Method	11449.0	11449.0	0.0	0.0
387	Ortho-phosphate (as P)	M	6878:2004	EN ISO	40.8	40.8	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : P0395 | Facility Name : Pfizer Nutritionals Ireland Limited | Filename : P0395\_2013.xls | R

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**SECTION A : PRTR POLLUTANTS**

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

**SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)**

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : P0395 | Facility Name : Pfizer Nutritionals Ireland Limited | Filename : P0395\_2013.xls | Return Year : 2013 |

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SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button



5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : P0395 | Facility Name : Pfizer Nutritionals Ireland Limited | Filename : P0395\_2013.xls | Return Year : 2013 |

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Please enter all quantities on this sheet in Tonnes

0

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Non	Haz Waste : Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination I.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used		Haz Waste : Name and Licence/Permit No of Recover/Disposer	Non Haz Waste : Address of Recover/Disposer			
To Other Countries	02 03 04	No	60.34	waste vegetable oil	R3	M	Weighed	Abroad	Bensons Products Ltd.,LN-53763		Oakfield Refinery MacDermott Road,Widnes,Cheshire,WA 8 OPF,United Kingdom		
Within the Country	02 05 02	No	2339.82	sludges from on-site effluent treatment	R3	M	Weighed	Offsite in Ireland	McDonnell Farms Biogas Ltd.,WFP/LK/2011/50/R2/T1		Dunmoylan,Shanagolden,Co . Limerick,,Ireland		
Within the Country	02 05 99	No	151.34	waste liquid product	R3	M	Weighed	Offsite in Ireland	Waddock Composting,WFP-CW-11-05-01		Killamaster,Tullow,Co. Carlow,,Ireland		
To Other Countries	06 01 05	Yes	7.353	nitric acid and nitrous acid	D9	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
Within the Country	06 02 04	Yes	1.666	sodium and potassium hydroxide	D9	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Enva Ireland Ltd.,W0041-01,Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland
To Other Countries	07 01 04	Yes	1.115	other organic solvents, washing liquids and mother liquors	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
To Other Countries	07 01 04	Yes	1.075	other organic solvents, washing liquids and mother liquors	R2	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Geocycle,38/152/BP,S.A. Scoribel,rue de Courriere 42,7181 Seneffe,,Belgium	S.A. Scoribel,rue de Courriere 42,7181 Seneffe,,Belgium
Within the Country	13 02 08	Yes	4.86	other engine, gear and lubricating oils	R9	M	Volume Calculation	Offsite in Ireland	Enva Ireland Ltd.,WCP-DC-08-1116-01		Clonminam Ind. Est.,Portlaoise,Co. Laoise,-,Ireland	Enva Ireland Ltd.,WCP-DC-08-1116-01,Clonminam Ind. Est.,Portlaoise,Co. Laoise,-,Ireland	Clonminam Ind. Est.,Portlaoise,Co. Laoise,-,Ireland
Within the Country	15 01 06	No	354.51	mixed packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2		Ballykeeffe Townland,Dock Road,Limerick,-,Ireland		
Within the Country	15 01 07	No	16.24	glass packaging	R5	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2		Ballykeeffe Townland,Dock Road,Limerick,-,Ireland		
To Other Countries	15 01 10	Yes	0.794	packaging containing residues of or contaminated by dangerous substances	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
Within the Country	15 01 10	Yes	0.321	packaging containing residues of or contaminated by dangerous substances	R3	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Enva Ireland Ltd.,WCP-DC-08-1116-01,Clonminam Ind. Est.,Portlaoise,Co. Laoise,-,Ireland	Clonminam Ind. Est.,Portlaoise,Co. Laoise,-,Ireland
Within the Country	15 01 10	Yes	0.253	packaging containing residues of or contaminated by dangerous substances	R4	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Enva Ireland Ltd.,W0041-01,Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland
Within the Country	16 05 06	Yes	3.894	Resin and water mix	D9	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Enva Ireland Ltd.,W0041-01,Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland

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						M/C/E	Method Used					
To Other Countries	15 02 02	Yes	0.182	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01	Smithstown Ind. Est.,Shannon,Co. Clare,.,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
Within the Country	16 05 08	Yes	1.06	50/50 resin and water	R1	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0041-01	Smithstown Ind. Est.,Shannon,Co. Clare,.,Ireland	Enva Ireland Ltd.,W0041-01,Smithstown Ind. Est.,Shannon,Co. Clare,.,Ireland	Smithstown Ind. Est.,Shannon,Co. Clare,.,Ireland
To Other Countries	16 05 06	Yes	4.452	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01	Smithstown Ind. Est.,Shannon,Co. Clare,.,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
Within the Country	17 01 07	No	313.58	01 06	R10	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2 National Document Management Group Ltd. t/a Shred-It,WFP-DC-09-0011-01	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		
Within the Country	20 01 01	No	14.93	paper	R3	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	5 Parkwest Ind. Est.,Dublin,Dublin 12,Ireland		
Within the Country	20 01 01	No	408.81	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		
Within the Country	20 01 21	Yes	0.333	fluorescent tubes and other mercury-containing waste	R5	M	Weighed	Offsite in Ireland	Irish Lamp Recycling Co. Ltd.,WFP-KE-08-0384-01	Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland	Irish Lamp Recycling Co. Ltd.,WFP-KE-08-0384-01,Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland	Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland
Within the Country	20 01 33	Yes	0.225	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R11	M	Weighed	Offsite in Ireland	Irish Lamp Recycling Co. Ltd.,WFP-KE-08-0384-01	Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland	Irish Lamp Recycling Co. Ltd.,WFP-KE-08-0384-01,Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland	Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland
Within the Country	20 01 35	Yes	0.79	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	Irish Lamp Recycling Co. Ltd.,WFP-KE-08-0384-01	Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland	Irish Lamp Recycling Co. Ltd.,WFP-KE-08-0384-01,Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland	Woodstock Ind. Est.,Kilkenny Road,Athy Co. Kildare,.,Ireland
Within the Country	20 01 38	No	2.86	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		
Within the Country	20 01 39	No	14.16	plastics	R3	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		
Within the Country	20 01 40	No	447.14	metals	R4	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		
Within the Country	20 01 40	No	36.72	metals	R4	M	Weighed	Offsite in Ireland	Hegarty Metals Processors (Intl.) Ltd.,WFP-LKC-11-001-01	Ballysimon Road, -,Limerick, -,Ireland		
Within the Country	20 02 01	No	1.2	Food waste	R3	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		
Within the Country	20 03 01	No	11.638	Dry mixed recyclables	R3	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		
Within the Country	20 03 01	No	569.0	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		
Within the Country	20 03 01	No	150.38	mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Greenstar Env. Services Ltd.,W0082-2	Ballykeeffe Townland,Dock Road,Limerick, -,Ireland		

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Within the Country	06 01 02	Yes	5.641	hydrochloric acid	D9	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Enva Ireland Ltd.,W0041-01,Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland
To Other Countries	06 13 02	Yes	1.25	spent activated carbon (except 06 07 02)	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
To Other Countries	08 01 11	Yes	0.643	waste paint and varnish containing organic solvents or other dangerous substances	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
To Other Countries	08 03 12	Yes	0.026	waste ink containing dangerous substances	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
To Other Countries	08 04 09	Yes	0.017	waste adhesives and sealants containing organic solvents or other dangerous substances	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
To Other Countries	13 02 08	Yes	0.706	other engine, gear and lubricating oils	R9	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Enva Ireland Ltd.,WCP-DC-08-1116-01,Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland	Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland
Within the Country	16 05 04	Yes	0.008	gases in pressure containers (including halons) containing dangerous substances	R1	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Lindenschmidt KG Umweltservice,04 714 98089,Krombacher Strabe 42-46,57223,Kreutzal,,Germany	Krombacher Strabe 42-46,57223,Kreutzal,,Germany
To Other Countries	20 01 15	Yes	2.314	alkalines	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Enva Ireland Ltd.,WCP-DC-08-1116-01,Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland	Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland
To Other Countries	20 01 27	Yes	5.56	paint, inks, adhesives and resins containing dangerous substances	R1	M	Weighed	Abroad	Enva Ireland Ltd.,W0041-01		Smithstown Ind. Est.,Shannon,Co. Clare,,Ireland	Enva Ireland Ltd.,WCP-DC-08-1116-01,Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland	Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland
Within the Country	13 05 07	Yes	2.08	oily water from oil/water separators	R9	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,WCP-DC-08-1116-01		Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland	Enva Ireland Ltd.,WCP-DC-08-1116-01,Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland	Clonminam Ind. Est.,Portlaoise,Co. Laoise,,Ireland

\* Select a row by double-clicking the Description of Waste then click the delete button

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						M/C/E	Method Used					

[Link to previous years waste data](#)  
[Link to previous years waste summary data & percentage change](#)  
[Link to Waste Guidance](#)