

Facility Information Summary

AER Reporting Year	2015
Licence Register Number	P0643-03
Name of site	AbbVie Ireland NL B.V
Site Location	Manorhamilton Road, Sligo, Co. Sligo
NACE Code	2110 (Manufacture of basic pharmaceutical products)
Class/Classes of Activity	5.16.0: Chemicals
National Grid Reference (6E, 6 N)	570530E 837424N

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.**

AbbVie Ireland NL B.V is involved in the manufacture of pharmaceuticals at its facility in Sligo Town. AbbVie holds an Industrial Emissions Licence (P0643-02) (originally an IPPC Licence issued in November 2005), as granted by the EPA.

The following key facilities are located on the AbbVie Ireland site: administration buildings, manufacturing building, drug product building, tank farm, wastewater treatment system, security and stores. There were no new buildings/facilities added during 2015. Maintenance was undertaken on the SW-1 and SE-1 systems during 2015 however no emissions were ongoing during the maintenance procedure. Maintenance was completed on both the TO and Cryo systems with air flows switched to other abatement systems.

During 2015 a RFA was submitted to the EPA for the introduction of two new products in the API. A new thermal oxidizer was commissioned in Q4 for non chlorinated waste streams.

There were two other reported incidents during 2015 which are detailed in the Complaint/Incidents section of this AER.

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.

	31/03/2016
Signature Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small>	Date

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Answer all questions and complete all tables where relevant

- 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

Additional information
<p>Yes</p> <p>There are eight emission points to atmosphere at AbbVie:</p> <ul style="list-style-type: none"> - A1-1 and A1-2 from boilers (A1-3 exists but is redundant) - A2-1(a) from Thermal Oxidiser - A2-1(b) from Cryogenic Condenser - A2-2 Scrubber (not in operation in 2014) - A2-3, A2-4 and A2-5 from dust extraction systems

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

FRA

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
Boiler A1-1	Nitrogen oxides (NOx/NO2)	Annual	180	No 30min mean can exceed the ELV	111.6	mg/Nm3	yes	Flue Gas Analyser	12881.05	
Boiler A1-1	Sulphur oxides (SOx/SO2)	Annual	70	No 30min mean can exceed the ELV	3.9	mg/Nm3	yes	Flue Gas Analyser	220.36	
Boiler A1-1	Carbon monoxide (CO)	Annual	N/A	No 30min mean can exceed the ELV	19.2	mg/Nm3	yes	Flue Gas Analyser	1825.48	
Boiler A1-1	Combustion Efficiency	Annual	N/A	N/A	81.8	%	yes	Flue Gas Analyser	N/A	
Boiler A1-1	Smoke	Bi-Annual	<1	100 % of values < ELV	<1	Ringelmann Shade	yes	Ringelmann Test	N/A	
Boiler A1-1	volumetric flow	Annual	13047	100 % of values < ELV	4084	Nm3/hour	yes	Flow Meter	N/A	
Boiler A1-2	Nitrogen oxides (NOx/NO2)	Annual	180	No 30min mean can exceed the ELV	163.8	mg/Nm3	yes	Flue Gas Analyser	12881.05	
Boiler A1-2	Sulphur oxides (SOx/SO2)	Annual	70	No 30min mean can exceed the ELV	1.5	mg/Nm3	yes	Flue Gas Analyser	220.36	
Boiler A1-2	Carbon monoxide (CO)	Annual	N/A	No 30min mean can exceed the ELV	21	mg/Nm3	yes	Flue Gas Analyser	1825.48	
Boiler A1-2	Combustion Efficiency	Annual	N/A	N/A	93.2	%	yes	Flue Gas Analyser	N/A	

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Boiler A1-2	volumetric flow	Annual	13047	100 % of values < ELV	6244	Nm3/hour	yes	Flow Meter	N/A
A2-1a	2-methoxyethanol	Bi-Annual	2	No 30min mean can exceed the ELV	1.8	mg/Nm3	yes	Adsorption/GC-MS	41.12
A2-1a	Dimethylformamide	Bi-Annual	2	No 30min mean can exceed the ELV	1.8	mg/Nm3	yes	Adsorption/GC-MS	41.12
A2-1a	TA Luft organic substances class 1	Bi-Annual	20	No 30min mean can exceed the ELV	1.875	mg/Nm3	yes	Adsorption/GC-MS	40.60
A2-1a	TA Luft organic substances class 2	Bi-Annual	100	No 30min mean can exceed the ELV	1.875	mg/Nm3	yes	Adsorption/GC-MS	40.60
A2-1a	Temperature	Bi-Annual	N/A	N/A	273	deg.c	yes	Pitot Tube	N/A
A2-1a	Total Organic Carbon (as C)	Bi-Annual	20	No 30min mean can exceed the ELV	0.2075	mg/Nm3	yes	Flue Gas Analyser	4.48
A2-1a	volumetric flow	Bi-Annual	13047	100 % of values < ELV	2206	Nm3/hour	yes	Flow Meter	N/A
A2-1b	2-methoxyethanol	Bi-Annual	2	No 30min mean can exceed the ELV	2.65	mg/Nm3	yes	Adsorption/GC-MS	41.12
A2-1b	Dimethylformamide	Bi-Annual	2	No 30min mean can exceed the ELV	2.65	mg/Nm3	yes	Adsorption/GC-MS	41.12
A2-1b	TA Luft organic substances class 1	Bi-Annual	20	No 30min mean can exceed the ELV	1.85	mg/Nm3	yes	Adsorption/GC-MS	40.60
A2-1b	TA Luft organic substances class 2	Bi-Annual	100	No 30min mean can exceed the ELV	1.85	mg/Nm3	yes	Adsorption/GC-MS	40.60
A2-1b	Temperature	Bi-Annual	N/A	N/A	273	deg.c	yes	Pitot Tube	N/A
A2-1b	Total Organic Carbon (as C)	Bi-Annual	20	No 30min mean can exceed the ELV	0.2	mg/Nm3	yes	Flue Gas Analyser	4.48
A2-1b	volumetric flow	Bi-Annual	13047	100 % of values < ELV	283	Nm3/hour	yes	Flow Meter	N/A
A2-2	Formic acid	Annual	N/A	N/A	0.1	mg/Nm3	yes	Non-isokinetic/charcoal tube	0.02

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A2-2	hydrochloric acid	Annual	N/A	N/A	0.3	mg/Nm3	yes	Non-isokinetic/isokinetic/charcoal tube	0.06	
A2-2	Temperature	Annual	N/A	N/A	273	deg.c	yes	Pitot Tube	N/A	
A2-2	volumetric flow	Annual	13047	100 % of values < ELV	23	Nm3/hour	yes	Flow Meter	N/A	
A2-3	Total Particulates	Annual	1	No 30min mean can exceed the ELV	0.7	mg/Nm3	yes	Isokinetic/Gravimetric	12.91	
A2-3	API	Annual	0.15	No 30min mean can exceed the ELV	<0.003	mg/Nm3	yes	Isokinetic/Gravimetric	0.05	
A2-3	volumetric flow	Annual	13047	100 % of values < ELV	926	Nm3/hour	yes	Flow Meter	N/A	
A2-4	Total Particulates	Annual	1	No 30min mean can exceed the ELV	0.9	mg/Nm3	yes	Isokinetic/Gravimetric	12.91	
A2-4	API	Annual	0.15	No 30min mean can exceed the ELV	<0.003	mg/Nm3	yes	Isokinetic/Gravimetric	0.05	
A2-4	volumetric flow	Annual	13047	100 % of values < ELV	926	Nm3/hour	yes	Flow Meter	N/A	

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

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Continuous Monitoring

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)	Yes	Continuous monitoring is carried out at emission point references A2-1(a) and A2-1(b)
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?	Yes	Service level agreements in place with Vendors (IES) and associated PMs
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No	

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 (Average)	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
A2-1(a)	Sulphur oxides (SOx/SO2)	70	24-hour	No 24hr mean > ELV	mg/Nm3	4.57	43.94	0	0	
A2-1(a)	Nitrogen oxides (NOx/NO2)	200	24-hour	No 24hr mean > ELV	mg/Nm3	30.22	139.63	0	0	
A2-1(a)	Carbon monoxide (CO)	300	24-hour	No 24hr mean > ELV	mg/Nm3	1.97	30.18	0	0	
A2-1(a)	Total Organic Carbon (as C)	20	24-hour	No 24hr mean > ELV	mg/Nm3	0.43	4.41	0	0	
A2-1(a)	Oxygen	n/a	24-hour	n/a	%			0	0	
A2-1(a)	Temperature	n/a	24-hour	n/a	degrees C	83.25	280.56	0	0	
A2-1(a)	Flow	3962	24-hour	No 24hr mean > ELV	Nm3/hour	666.3	2205.91	0	0	
A2-1(b)	Total Organic Carbon (as C)	20	24-hour	No 24hr mean > ELV	mg/Nm3	0.01	1.78	0	0	
A2-1(b)	Flow	900	24-hour	No 24hr mean > ELV	Nm3/hour	122.17	1012.46	0	0	

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

AIR-summary template		Lic No: P0643-02		Year 2015				
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				Licence condition 6.10: - fugitive emissions to atmosphere shall not exceed 5% of solvent input on an annual basis				
Table A4: Solvent Management Plan Summary Total VOC Emission limit value				Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6				
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			
2013	26,650.54	43.1	0.0038%	5%	Yes			
2014	696,154.0	520	0.77%	5%	Yes			
2015	594,210	2,160	0.36	5%	Yes			
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)
Methanol	144.57							
ALCOHOL, ISOPRO	27.21							
TETRAHYDROFUR	28.81							
ETHYL ACETATE	110.49							
METHYLENE CHLO	50.07							
DIMETHYL SULFOX	68.61							
ETHANOL	32.04							
N-METHYL MORPH	0.43							
IPAC	84.54							
N-METHYLPYRROL	13.32							
HYDROC. ACID	0.45							
DIMETHYLFORMAM	11.47							
ETHANOL WITH TO	20.87							
ACETONITRILE	1.34							
Total								

SELECT

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

Lic No:

P0643-02

Year

2015

Additional information

1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

Yes
The stormwater discharge reference is SW-1 and the sewer discharge reference is SE-1.

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 only any evidence of contamination noted during visual inspections

Yes
Licence Condition 6.8.2: A visual examination of the storm water discharge shall be carried out daily. A log of such inspections shall be maintained.

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
SW-1	onsite	n/a	COD	Weekly	1300	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	10	mg/L	yes	
SW-1	onsite	n/a	pH	Daily	6 - 9	No pH value shall deviate from the specified range.	7.87	pH units	yes	
SW-1	onsite	n/a	Temperature	Daily	40	No pH value shall deviate from the specified range.	12.79	degrees C	yes	

*trigger values may be agreed

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
SW-1	11/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	12/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	13/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	15/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	16/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	17/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	18/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	19/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	20/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection
SW-1	23/03/2015	Turbid	site	none	Minor observation, returned to clear shortly after inspection

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

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

No
Additional information

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

[External/Internal](#)

[Lab Quality](#)

[Assessment of](#)

[checklist](#)

[results checklist](#)

require improvement in additional information box

Yes

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

Lic No:

P0643-02

Year

2015

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{Note 2}	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
SE-1	Wastewater/Sewer	Ammonia (as N)	composite	Weekly	N/A	25	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1.43	mg/L	yes	ISE (Ion Selective Electrode)	SELECT		14.58	
SE-1	Wastewater/Sewer	BOD	composite	Weekly	N/A	450	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	16.2	mg/L	yes	5-day incubation and DO probe	QP-CHEM-2016		164.8	
SE-1	Wastewater/Sewer	Detergents (as MBAS)	composite	Quarterly	N/A	20	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.21	mg/L	yes	Standard Method			2.14	
SE-1	Wastewater/Sewer	Nitrate (as N)	composite	Monthly	N/A	N/A	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	9.52	mg/L	yes	ISE (Ion Selective Electrode)	QP-CHEM-2016		96.86	
SE-1	Wastewater/Sewer	Nitrite (as N)	composite	Monthly	N/A	N/A	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.0353	mg/L	yes	Standard Method			0.36	
SE-1	Wastewater/Sewer	Total nitrogen	composite	Monthly	N/A	N/A	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	7.33	mg/L	yes	Standard Method			74.56	
SE-1	Wastewater/Sewer	Fats, Oils and Greases	composite	Quarterly	N/A	10	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	5*	mg/L	yes	Hexane Extraction and Gravimetry	QP-CHEM-2019		50.88	Less than detection limit (<10mg/l) therefore actual value taken at 50% of detection limit
SE-1	Wastewater/Sewer	Sulphate	composite	Monthly	N/A	1500	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	120.1	mg/L	yes	Turbidimetry	QP-CHEM-2050		1221.77	
SE-1	Wastewater/Sewer	Kjeldahl Nitrogen	composite	Monthly	N/A	N/A	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	5.18	mg/L	yes	Digestion and Spectrometry	QP-CHEM-2073		52.73	
SE-1	Wastewater/Sewer	Total phosphorus	composite	Weekly	N/A	10	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	3.18	mg/L	yes	Standard Method			33.07	
SE-1	Wastewater/Sewer	Toxicity	composite	Annual	N/A	N/A	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	10.44	mg/L	no (if no please enter details in comments box)	Respirometry Test	EN ISO 8192:2007			

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

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

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

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

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

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

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
SE-1	Wastewater/Sewer	pH	6-9	24 hour	No pH value shall deviate from the .specified range	pH units	7.5	n/a	0	0	Average value
SE-1	Wastewater/Sewer	Temperature	40	24 hour	No temperature value shall exceed the limit .value	degrees C	11.19	n/a	0	0	Average value
SE-1	Wastewater/Sewer	COD	1300	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	216.51	-93.70%	0	0	Reduction due to reduced volumetric flow
SE-1	Wastewater/Sewer	Suspended Solids	350	24 hour	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	mg/L	174.71	-91.5	0	0	Reduction due to reduced volumetric flow
SE-1	Wastewater/Sewer	volumetric flow	300	24 hour	No flow value shall exceed the specific limit.	m3/day	10176 (Total Yearly Flow)	-85.40%	0	0	Reduction due to reduced volumetric flow

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

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
11/06/2015	360	SW-1	No Emissions	Equipemnt malfunction	Replace Toc meter	Yes	02/07/2015

*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"
- 3 type units and mobile bunds)
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?

Yes	
3 years	
Yes	
	47
	47
Yes	
	3

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?

N/A	
N/A	
N/A	

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)
004A	prefabricated	Plastic	Chemstore	1.35	1.1	Hydraulic test		08/12/2015	Yes	Pass		SELECT	2018	
004B	prefabricated	Steel	Chemstore	1.35	1.1	Hydraulic test		08/12/2015	Yes	Pass			2018	
005A	prefabricated	Steel	Chemstore	1.35	1.1	Hydraulic test		08/12/2015	Yes	Pass			2018	
005B	prefabricated	Steel	Chemstore	1.35	1.1	Hydraulic test		08/12/2015	Yes	Pass			2018	
006A	prefabricated	Steel	Chemstore	1.35	1.1	Hydraulic test		08/12/2015	Yes	Pass			2018	
006B	prefabricated	Steel	Chemstore	1.35	1.1	Hydraulic test		08/12/2015	Yes	Pass			2018	
007A	prefabricated	Steel	Chemstore	1.35	1.1	Hydraulic test		08/12/2015	Yes	Pass			2018	
007B	prefabricated	Steel	Chemstore	1.35	1.1	Hydraulic test		08/12/2015	Yes	Pass			2018	
010	prefabricated	Steel	Incoming warehouse goods	0.22	0.2	Hydraulic test		07/12/2015	Yes	Pass			2018	
011	prefabricated	Steel	Mobile storage bund	0.22	0.2	Hydraulic test		07/12/2015	Yes	Pass			2018	
201	reinforced concrete		Drug product and lab sump	60	8	Hydraulic test		07/12/2015	Yes	Pass			2018	
205	prefabricated	Steel	B20 Ph Neutralisation Skid	1.57	1.4	Hydraulic test		07/12/2015	Yes	Pass			2018	
401	reinforced concrete		Catch pot bund	8.43	6.65	Hydraulic test		07/12/2015	Yes	Pass			2018	
401	reinforced concrete		Solvent waste tank bund	12.4	5.43	Hydraulic test		07/12/2015	Yes	Pass			2018	
403	reinforced concrete		Aqueous waste tank bund	13	5.43	Hydraulic test		07/12/2015	Yes	Pass			2018	
406	reinforced concrete		Drum charge bund	4.9	1	Hydraulic test		07/12/2015	Yes	Pass			2018	
407	reinforced concrete		Mother liquors storage tank	22.76	20	Hydraulic test		07/12/2015	Yes	Pass			2018	
408	prefabricated	Steel	Mother liquors storage tank	1	2	Hydraulic test		07/12/2015	Yes	Pass			2018	
409	prefabricated	Steel	Mother liquors IBC Bund	1.2	1	Hydraulic test		07/12/2015	Yes	Pass			2018	
410	prefabricated	Steel	Mother liquors IBC Bund	1.2	1	Hydraulic test		07/12/2015	Yes	Pass			2018	
411A	prefabricated	Plastic	Ph skid	0.2	0.0275	Hydraulic test		08/12/2015	Yes	Pass			2018	
411B	prefabricated	Plastic	Ph skid	0.2	0.0275	Hydraulic test		08/12/2015	Yes	Pass			2018	

Bund/Pipeline testing template											
		Lic No: P0643-02		Year 2015							
SPEC NX1164A	prefabricated	Plastic	Ph skid	0.53	0.13	Hydraulic test		08/12/2015	Yes	Pass	2018
SPEC NX1164B	prefabricated	Plastic	Ph skid	0.53	0.13	Hydraulic test		08/12/2015	Yes	Pass	2018
SPEC NX1164C	prefabricated	Plastic	Within 701	0.53	0.13	Hydraulic test		08/12/2015	Yes	Pass	2018
704	reinforced concrete		704	3.23	3	Hydraulic test		08/12/2015	Yes	Pass	2018
705	other (please specify)	Steel	Oil storage	2.5	2	Hydraulic test		08/12/2015	Yes	Pass	2018
706A	other (please specify)	Steel	Storage container	1.35	1	Hydraulic test		08/12/2015	Yes	Pass	2018
706B	other (please specify)	Steel	Storage container	1.35	1	Hydraulic test		08/12/2015	Yes	Pass	2018
011	other (please specify)	Steel	Paint Store	0.2	0.12	Hydraulic test		08/12/2015	Yes	Pass	2018
710	other (please specify)	Plastic	Boiler dosing bund	5.5	0.55	Hydraulic test		08/12/2015	Yes	Pass	2018
711	other (please specify)	Plastic	Boiler dosing bund	0.25	0.55	Hydraulic test		08/12/2015	Yes	Pass	2018
712	other (please specify)	Plastic	Boiler dosing bund	5.5	0.55	Hydraulic test		08/12/2015	Yes	Pass	2018
901	other (please specify)	Plastic	Tank farm pumps bund	13.2	11	Hydraulic test		08/12/2015	Yes	Pass	2018
906	other (please specify)	Plastic	Chlorine dosing bund	1.1	1	Hydraulic test		08/12/2015	Yes	Pass	2018
907A	other (please specify)	Plastic	TK 906 Dosing skid	0.2	0.12	Hydraulic test		08/12/2015	Yes	Pass	2018
907B	other (please specify)	Steel	TK 906 Dosing skid	0.2	0.12	Hydraulic test		08/12/2015	Yes	Pass	2018
Flam A	other (please specify)	Steel	Warehouse bund A	0.16	0.11	Hydraulic test		08/12/2015	Yes	Pass	2018
Flam B	other (please specify)	Steel	Warehouse bund B	0.16	0.11	Hydraulic test		08/12/2015	Yes	Pass	2018
Flam C	other (please specify)	Steel	Warehouse bund C	0.39	0.16	Hydraulic test		08/12/2015	Yes	Pass	2018
Flam D	other (please specify)	Steel	Warehouse bund D	0.39	0.16	Hydraulic test		08/12/2015	Yes	Pass	2018
Drumstore	reinforced concrete		Warehouse bund D	187.7	78	Hydraulic test		08/12/2015	Yes	Pass	2018
202	reinforced concrete		Pump Containment	0.84	0.7	Other (please specify)	Visual	16/12/2015	Yes	Pass	2018
404	reinforced concrete		Pump Containment	5	0	Other (please specify)	Visual	16/12/2015	Yes	Pass	2018
701	reinforced concrete		Pump Containment	61.6	0	Other (please specify)	Visual	16/12/2015	Yes	Pass	2018
703	reinforced concrete		RMC bund	96.5	40	Other (please specify)	Visual	16/12/2015	Yes	Pass	2018
713	other (please specify)	Steel	Self bunded tank	96.5	40	Other (please specify)	Visual	16/12/2015	Yes	Pass	2018
801	other (please specify)	Steel	Self bunded tank	65.6	40	Other (please specify)	Visual	16/12/2015	Yes	Pass	2018
902	reinforced concrete		Self bunded tank	65.1	30	Other (please specify)	Visual	16/12/2015	Yes	Pass	2018
904	reinforced concrete		Self bunded tank	82.3	44	Other (please specify)	Visual	16/12/2015	Yes	Pass	2018
	SELECT					SELECT			SELECT	SELECT	SELECT

Bund/Pipeline testing template Lic No: P0643-02 Year 2015

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence
 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?
 15 line with BS8007/EPA Guidance?
 16 Are channels/transfer systems to remote containment systems tested?
 17 Are channels/transfer systems compliant in both integrity and available volume?

[bundling and storage guidelines](#)

Commentary	
Yes	
n/a	
n/a	

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 1 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	Underground foul sewer line and surface water lines tested and inspected in March 2013 - due for reinspection in March 2016.
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)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

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

Groundwater/Soil monitoring template	Lic No: P0643-02	Year: 2015
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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 Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	no
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
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?	n/a
9	Has any type of risk assessment been carried out for the site?	n/a
10	Has a Conceptual Site Model been developed for the site?	n/a
11	Have potential receptors been identified on and off site?	n/a
12	Is there evidence that contamination is migrating offsite?	n/a

GW monitoring is carried out at 4 no. locations (MW1, MW2, MW3 and MW4)

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER

Exceedance of Aluminum IGV (0.15mg/l) during the April monitoring round at MW-2 (0.4mg/l), MW-3 (0.8mg/l) & MW-4 (1.3mg/l) and during the November monitoring round at MW-1 (1.7mg/l) & MW-4 (0.6mg/l) likely due to poor background groundwater quality.

Exceedance of Sulphate IGV (187.5mg/l) during the November monitoring round at MW-1 (219.1 mg/l) likely due to poor background groundwater quality.

Exceedance of Potassium IGV (5mg/l) during the November monitoring round at MW-1 (5.8mg/l) likely due to poor background groundwater quality.

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV/s*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

.+ where average indicates arithmetic mean

.++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Groundwater/Soil monitoring template

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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
06 May 2015 & 05 Nov 2015	MW-1	Chloride	Standard Method	Biannual	33	26.2	mg/l	187.5		no
06 May 2015 & 05 Nov 2015	MW-1	Fluoride		Biannual	0.202	0.202	mg/l		1	no
06 May 2015 & 05 Nov 2015	MW-1	Sulphate		Biannual	219.1	124.25	mg/l	187.5		no
06 May 2015 & 05 Nov 2015	MW-1	Nitrate NO3	Ion Selective Electrode	Biannual	2.44	1.745	mg/l	37.5		no
06 May 2015 & 05 Nov 2015	MW-1	COD	Standard Method	Biannual	14	9.5	mg/l	No Abnormal Change		no
06 May 2015 & 05 Nov 2015	MW-1	Conductivity	pH electrode/meter	Biannual	543	428.5	uS/cm	800-1875		no

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06 May 2015 & 05 Nov 2015	MW-1	pH	pH electrode/meter	Biannual	7.9	7.55	pH Units	6.5-9.5		no
06 May 2015 & 05 Nov 2015	MW-1	Nitrite NO2	Ion Selective Electrode	Biannual	0.08	0.0525	mg/l	375		no
06 May 2015 & 05 Nov 2015	MW-1	Ammonia NH4	Ion Selective Electrode	Biannual	0.27	0.27	mg/l	0.0165-0.175		no
06 May 2015 & 05 Nov 2015	MW-1	ortho-Phosphate		Biannual	0.02	0.02	mg/l	-	-	no
06 May 2015 & 05 Nov 2015	MW-1	Temperature	Thermometer	Biannual	11.3	11.3	degrees C	25		no
06 May 2015 & 05 Nov 2015	MW-1	Aluminium	Atomic Absorption/ICP	Biannual	1.7	0.9	mg/l	0.15		no
06 May 2015 & 05 Nov 2015	MW-1	Cadmium	Atomic Absorption/ICP	Biannual	0.0006	0.0006	mg/l	0.004		no
06 May 2015 & 05 Nov 2015	MW-1	Calcium	Atomic Absorption/ICP	Biannual	132	93.2	mg/l		200	no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
06 May 2015 & 05 Nov 2015	MW-1	Chromium	Atomic Absorption/ICP	Biannual	0.005	0.0035	mg/l	0.0375		no
06 May 2015 & 05 Nov 2015	MW-1	Cobalt	Atomic Absorption/ICP	Biannual	0.004	0.003	mg/l	-	-	no
06 May 2015 & 05 Nov 2015	MW-1	Copper	Atomic Absorption/ICP	Biannual	0.014	0.0115	mg/l	1.5		no
06 May 2015 & 05 Nov 2015	MW-1	Iron	Atomic Absorption/ICP	Biannual	1.96	1.095	mg/l		0.2	no
06 May 2015 & 05 Nov 2015	MW-1	Lead	Atomic Absorption/ICP	Biannual	0.006	0.006	mg/l	0.019		no
06 May 2015 & 05 Nov 2015	MW-1	Magnesium	Atomic Absorption/ICP	Biannual	12.3	9	mg/l		50	no
06 May 2015 & 05 Nov 2015	MW-1	Manganese	Atomic Absorption/ICP	Biannual	0.651	0.334	mg/l		0.05	no
06 May 2015 & 05 Nov 2015	MW-1	Mercury	Atomic Absorption/ICP	Biannual	0.00015	0.000125	mg/l	0.00075		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
06 May 2015 & 05 Nov 2015	MW-1	Nickel	Atomic Absorption/ICP	Biannual	0.018	0.013	mg/l	0.015		no
06 May 2015 & 05 Nov 2015	MW-1	Potassium	Atomic Absorption/ICP	Biannual	5.8	4.815	mg/l		5	no
06 May 2015 & 05 Nov 2015	MW-1	Silver	Atomic Absorption/ICP	Biannual	0.0011	0.0009	mg/l	-	-	no
06 May 2015 & 05 Nov 2015	MW-1	Sodium	Atomic Absorption/ICP	Biannual	25	17.95	mg/l	150		no
06 May 2015 & 05 Nov 2015	MW-1	Tin	Atomic Absorption/ICP	Biannual	0.01	0.0085	mg/l	-	-	no
06 May 2015 & 05 Nov 2015	MW-1	Zinc	Atomic Absorption/ICP	Biannual	0.018	0.014	mg/l	-	-	no
06 May 2015 & 05 Nov 2015	MW-1	Antimony	Atomic Absorption/ICP	Biannual	0.0014	0.0013	mg/l	-	-	no
06 May 2015 & 05 Nov 2015	MW-1	Selenium	Atomic Absorption/ICP	Biannual	0.00129	0.001045	mg/l	-	-	no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
06 May 2015 & 05 Nov 2015	MW-1	Arsenic	Atomic Absorption/ICP	Biannual	0.0017	0.0016	mg/l	0.0075		no
01 April 2015 & 05 Nov 2015	MW-2	Chloride	Standard Method	Biannual	75	52.25	mg/l	187.5		no
01 April 2015 & 05 Nov 2015	MW-2	Fluoride		Biannual	0.328	0.328	mg/l		1	no
01 April 2015 & 05 Nov 2015	MW-2	Sulphate		Biannual	58.7	55.65	mg/l	187.5		no
01 April 2015 & 05 Nov 2015	MW-2	Nitrate NO3	Ion Selective Electrode	Biannual	3.07	2.735	mg/l	37.5		no
01 April 2015 & 05 Nov 2015	MW-2	COD	Standard Method	Biannual	5	5	mg/l	No Abnormal Change		no
01 April 2015 & 05 Nov 2015	MW-2	Conductivity	pH electrode/meter	Biannual	698	634.5	uS/cm	800-1875		no
01 April 2015 & 05 Nov 2015	MW-2	pH	pH electrode/meter	Biannual	8.03	7.715	pH Units	6.5-9.5		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-2	Nitrite NO2	Ion Selective Electrode	Biannual	0.08	0.0525	mg/l	375		no
01 April 2015 & 05 Nov 2015	MW-2	Ammonia NH4	Ion Selective Electrode	Biannual	0.27	0.27	mg/l	0.0165-0.175		no
01 April 2015 & 05 Nov 2015	MW-2	ortho-Phosphate		Biannual	0.03	0.025	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-2	Temperature	Thermometer	Biannual	11.8	11.8	degrees C	25		no
01 April 2015 & 05 Nov 2015	MW-2	Aluminium	Atomic Absorption/ICP	Biannual	0.4	0.25	mg/l	0.15		no
01 April 2015 & 05 Nov 2015	MW-2	Cadmium	Atomic Absorption/ICP	Biannual	0.0006	0.0006	mg/l	0.004		no
01 April 2015 & 05 Nov 2015	MW-2	Calcium	Atomic Absorption/ICP	Biannual	112	61.2	mg/l		200	no
01 April 2015 & 05 Nov 2015	MW-2	Chromium	Atomic Absorption/ICP	Biannual	0.002	0.002	mg/l	0.0375		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-2	Cobalt	Atomic Absorption/ICP	Biannual	0.005	0.0035	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-2	Copper	Atomic Absorption/ICP	Biannual	0.024	0.0165	mg/l	1.5		no
01 April 2015 & 05 Nov 2015	MW-2	Iron	Atomic Absorption/ICP	Biannual	1.55	0.925	mg/l		0.2	no
01 April 2015 & 05 Nov 2015	MW-2	Lead	Atomic Absorption/ICP	Biannual	0.007	0.0065	mg/l	0.019		no
01 April 2015 & 05 Nov 2015	MW-2	Magnesium	Atomic Absorption/ICP	Biannual	13.2	11.8	mg/l		50	no
01 April 2015 & 05 Nov 2015	MW-2	Manganese	Atomic Absorption/ICP	Biannual	0.509	0.284	mg/l		0.05	no
01 April 2015 & 05 Nov 2015	MW-2	Mercury	Atomic Absorption/ICP	Biannual	0.0001	0.0001	mg/l	0.00075		no
01 April 2015 & 05 Nov 2015	MW-2	Nickel	Atomic Absorption/ICP	Biannual	0.015	0.011	mg/l	0.015		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-2	Potassium	Atomic Absorption/ICP	Biannual	2.53	2.335	mg/l		5	no
01 April 2015 & 05 Nov 2015	MW-2	Silver	Atomic Absorption/ICP	Biannual	0.0012	0.00095	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-2	Sodium	Atomic Absorption/ICP	Biannual	36.9	29.85	mg/l	150		no
01 April 2015 & 05 Nov 2015	MW-2	Tin	Atomic Absorption/ICP	Biannual	0.007	0.007	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-2	Zinc	Atomic Absorption/ICP	Biannual	0.04	0.0235	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-2	Antimony	Atomic Absorption/ICP	Biannual	0.0012	0.0012	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-2	Selenium	Atomic Absorption/ICP	Biannual	0.0008	0.0008	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-2	Arsenic	Atomic Absorption/ICP	Biannual	0.003	0.002	mg/l	0.0075		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-3	Chloride	Standard Method	Biannual	72.5	52.75	mg/l	187.5		no
01 April 2015 & 05 Nov 2015	MW-3	Fluoride		Biannual	0.187	0.187	mg/l		1	no
01 April 2015 & 05 Nov 2015	MW-3	Sulphate		Biannual	41.4	35.3	mg/l	187.5		no
01 April 2015 & 05 Nov 2015	MW-3	Nitrate NO3	Ion Selective Electrode	Biannual	2.14	1.87	mg/l	37.5		no
01 April 2015 & 05 Nov 2015	MW-3	COD	Standard Method	Biannual	5	5	mg/l	No Abnormal Change		no
01 April 2015 & 05 Nov 2015	MW-3	Conductivity	pH electrode/meter	Biannual	774	672.5	uS/cm	800-1875		no
01 April 2015 & 05 Nov 2015	MW-3	pH	pH electrode/meter	Biannual	7.94	7.47	pH Units	6.5-9.5		no
01 April 2015 & 05 Nov 2015	MW-3	Nitrite NO2	Ion Selective Electrode	Biannual	0.08	0.0525	mg/l	375		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-3	Ammonia NH4	Ion Selective Electrode	Biannual	0.27	0.27	mg/l	0.0165-0.175		no
01 April 2015 & 05 Nov 2015	MW-3	ortho-Phosphate		Biannual	0.02	0.02	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-3	Temperature	Thermometer	Biannual	11.5	11.5	degrees C	25		no
01 April 2015 & 05 Nov 2015	MW-3	Aluminium	Atomic Absorption/ICP	Biannual	0.8	0.45	mg/l	0.15		no
01 April 2015 & 05 Nov 2015	MW-3	Cadmium	Atomic Absorption/ICP	Biannual	0.0006	0.0006	mg/l	0.004		no
01 April 2015 & 05 Nov 2015	MW-3	Calcium	Atomic Absorption/ICP	Biannual	163	147.5	mg/l		200	no
01 April 2015 & 05 Nov 2015	MW-3	Chromium	Atomic Absorption/ICP	Biannual	0.002	0.002	mg/l	0.0375		no
01 April 2015 & 05 Nov 2015	MW-3	Cobalt	Atomic Absorption/ICP	Biannual	0.003	0.0025	mg/l	-	-	no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015		
01 April 2015 & 05 Nov 2015	MW-3	Copper	Atomic Absorption/ICP	Biannual	0.009	0.009	mg/l	1.5	no
01 April 2015 & 05 Nov 2015	MW-3	Iron	Atomic Absorption/ICP	Biannual	17.7	9.755	mg/l	0.2	no
01 April 2015 & 05 Nov 2015	MW-3	Lead	Atomic Absorption/ICP	Biannual	0.01	0.008	mg/l	0.019	no
01 April 2015 & 05 Nov 2015	MW-3	Magnesium	Atomic Absorption/ICP	Biannual	18.9	17.55	mg/l	50	no
01 April 2015 & 05 Nov 2015	MW-3	Manganese	Atomic Absorption/ICP	Biannual	0.087	0.056	mg/l	0.05	no
01 April 2015 & 05 Nov 2015	MW-3	Mercury	Atomic Absorption/ICP	Biannual	0.0001	0.0001	mg/l	0.00075	no
01 April 2015 & 05 Nov 2015	MW-3	Nickel	Atomic Absorption/ICP	Biannual	0.01	0.0085	mg/l	0.015	no
01 April 2015 & 05 Nov 2015	MW-3	Potassium	Atomic Absorption/ICP	Biannual	2.21	2.18	mg/l	5	no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-3	Silver	Atomic Absorption/ICP	Biannual	0.0007	0.0007	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-3	Sodium	Atomic Absorption/ICP	Biannual	18.5	18.25	mg/l	150		no
01 April 2015 & 05 Nov 2015	MW-3	Tin	Atomic Absorption/ICP	Biannual	0.01	0.0085	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-3	Zinc	Atomic Absorption/ICP	Biannual	0.018	0.014	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-3	Antimony	Atomic Absorption/ICP	Biannual	0.0012	0.0012	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-3	Selenium	Atomic Absorption/ICP	Biannual	0.00423	0.002515	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-3	Arsenic	Atomic Absorption/ICP	Biannual	0.006	0.0035	mg/l	0.0075		no
01 April 2015 & 05 Nov 2015	MW-4	Chloride	Standard Method	Biannual	55	49.5	mg/l	187.5		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-4	Fluoride		Biannual	0.665	0.665	mg/l		1	no
01 April 2015 & 05 Nov 2015	MW-4	Sulphate		Biannual	72.2	61.9	mg/l	187.5		no
01 April 2015 & 05 Nov 2015	MW-4	Nitrate NO3	Ion Selective Electrode	Biannual	1	1	mg/l	37.5		no
01 April 2015 & 05 Nov 2015	MW-4	COD	Standard Method	Biannual	8	6.5	mg/l	No Abnormal Change		no
01 April 2015 & 05 Nov 2015	MW-4	Conductivity	pH electrode/meter	Biannual	784	759.5	uS/cm	800-1875		no
01 April 2015 & 05 Nov 2015	MW-4	pH	pH electrode/meter	Biannual	7.27	7.235	pH Units	6.5-9.5		no
01 April 2015 & 05 Nov 2015	MW-4	Nitrite NO2	Ion Selective Electrode	Biannual	0.08	0.0525	mg/l	375		no
01 April 2015 & 05 Nov 2015	MW-4	Ammonia NH4	Ion Selective Electrode	Biannual	0.27	0.27	mg/l	0.0165-0.175		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-4	ortho-Phosphate		Biannual	0.02	0.02	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-4	Temperature	Thermometer	Biannual	11.9	11.9	degrees C	25		no
01 April 2015 & 05 Nov 2015	MW-4	Aluminium	Atomic Absorption/ICP	Biannual	1.3	0.95	mg/l	0.15		no
01 April 2015 & 05 Nov 2015	MW-4	Cadmium	Atomic Absorption/ICP	Biannual	0.0006	0.0006	mg/l	0.004		no
01 April 2015 & 05 Nov 2015	MW-4	Calcium	Atomic Absorption/ICP	Biannual	187	166.5	mg/l		200	no
01 April 2015 & 05 Nov 2015	MW-4	Chromium	Atomic Absorption/ICP	Biannual	0.005	0.004	mg/l	0.0375		no
01 April 2015 & 05 Nov 2015	MW-4	Cobalt	Atomic Absorption/ICP	Biannual	0.003	0.0025	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-4	Copper	Atomic Absorption/ICP	Biannual	0.04	0.0245	mg/l	1.5		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-4	Iron	Atomic Absorption/ICP	Biannual	2.37	1.74	mg/l		0.2	no
01 April 2015 & 05 Nov 2015	MW-4	Lead	Atomic Absorption/ICP	Biannual	0.013	0.0095	mg/l	0.019		no
01 April 2015 & 05 Nov 2015	MW-4	Magnesium	Atomic Absorption/ICP	Biannual	26.2	24.95	mg/l		50	no
01 April 2015 & 05 Nov 2015	MW-4	Manganese	Atomic Absorption/ICP	Biannual	1.01	0.756	mg/l		0.05	no
01 April 2015 & 05 Nov 2015	MW-4	Mercury	Atomic Absorption/ICP	Biannual	0.0001	0.0001	mg/l	0.00075		no
01 April 2015 & 05 Nov 2015	MW-4	Nickel	Atomic Absorption/ICP	Biannual	0.009	0.0075	mg/l	0.015		no
01 April 2015 & 05 Nov 2015	MW-4	Potassium	Atomic Absorption/ICP	Biannual	2.32	2.115	mg/l		5	no
01 April 2015 & 05 Nov 2015	MW-4	Silver	Atomic Absorption/ICP	Biannual	0.0027	0.0017	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-4	Sodium	Atomic Absorption/ICP	Biannual	22	21.5	mg/l	150		no

Groundwater/Soil monitoring template				Lic No:	P0643-02	Year	2015			
01 April 2015 & 05 Nov 2015	MW-4	Tin	Atomic Absorption/ICP	Biannual	0.007	0.007	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-4	Zinc	Atomic Absorption/ICP	Biannual	0.04	0.0235	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-4	Antimony	Atomic Absorption/ICP	Biannual	0.0012	0.0012	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-4	Selenium	Atomic Absorption/ICP	Biannual	0.0008	0.0008	mg/l	-	-	no
01 April 2015 & 05 Nov 2015	MW-4	Arsenic	Atomic Absorption/ICP	Biannual	0.0027	0.00185	mg/l	0.0075		no
							SELECT			SELECT
<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. Groundwater monitoring template</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 Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013). (see the link in G31)</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) Surface water EQS Groundwater regulations Drinking water (private supply) standards Drinking water (public supply) standards Interim Guideline Values (IGV)</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:

P0643-02

Year

2015

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

			Commentary
1	ELRA initial agreement status	TBC	AbbVie are engaging with the EPA to agree ELRA
2	ELRA review status	Review required and not completed;	AbbVie are engaging with the EPA to agree ELRA
3	Amount of Financial Provision cover required as determined by the latest ELRA	€75,375 (2010)	
4	Financial Provision for ELRA status	TBC	AbbVie are engaging with the EPA to agree ELRA
5	Financial Provision for ELRA - amount of cover	TBC	
6	Financial Provision for ELRA - type	TBC	
7	Financial provision for ELRA expiry date	TBC	
8	Closure plan initial agreement status	TBC	AbbVie are engaging with the EPA to agree CRAMP
9	Closure plan review status	Review required and not completed	AbbVie are engaging with the EPA to agree CRAMP
10	Financial Provision for Closure status	TBC	
11	Financial Provision for Closure - amount of cover	TBC	
12	Financial Provision for Closure - type	TBC	
13	Financial provision for Closure expiry date	TBC	

Programme/Continuous	Lic No:	P0643-02	Year	2015
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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	Abbvie has been ISO14001 accredited since 2012
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	The purpose of the EMP is to identify the Environmental objectives and targets and action plans which have been created by the Health, Safety and Environmental Manager. The Register of Aspects references the most significant environmental aspects and is based on the risk assessment process. From this assessment the environmental objectives and targets are prioritised.
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	The Environmental Policy is available in the reception area. The HS&E manager, in conjunction with the relevant personnel, review the EMP on an annual basis with a view to demonstrating a commitment to continual improvement of environmental performance within the company. This is reported to the relevant personel within Honeywell. Hard copies are available for viewing by the EPA on site.

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Wastewater	Investigate methods for the on site treatment of process related aqueous waste	100	Identify waste reduction/ optimisation for 2015 & include in the Environmental Sustainability LRP	Section Head	Improved Environmental Management Practices
Reduction of emissions to Wastewater	Assess the impact of any new active ingredients on the existing environment and the municipal WWTP in Sligo	100	Assess the impact of the undiluted process effluent on the receiving environment and Sligo wastewater treatment plant	Section Head	Improved Environmental Management Practices
Reduction of emissions to Wastewater	Develop test methods for the measurement of pharmaceutical actives in water	50	Ensure that all new products coming to the facility have suitable test methods for the measurement of Pharmaceutical actives in water	Section Head	Improved Environmental Management Practices

Programme/Continuous		Lic No:	P0643-02	Year	2015
Reduction of emissions to Water	Maintain the response programme for occurrences when the TOC warning and action levels of the discharge to surface water are reached	100	Maintain the response programme for occurrences when the TOC warning and action levels of the discharge to surface water are reached. This programme shall be submitted to the agency as part of the AER.	Section Head	Improved Environmental Management Practices
Reduction of emissions to Water	Investigate methods for linking the automatic outlet valve on the retention pond to the TOC analyser in order to close the valve on a high reading	50	Investigate methods for linking the automatic outlet valve on the retention pond to the TOC analyser in order to close the valve on a high reading.	Section Head	Improved Environmental Management Practices
Energy Efficiency/Utility conservation	The loading and unloading of materials shall be carried out in designated area protected against spillages and leachate run-off	100	Ensure all suppliers delivering hazardous materials are supervised by an appropriate person when making a delivery to the site.	Section Head	Improved Environmental Management Practices
Energy Efficiency/Utility conservation	The company shall keep a full record of matters relating to hazardous waste management operations and practices at the site.	100	Ensure a file is retained of all correct documentation required when receiving or arranging a delivery of hazardous materials	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Maintain ISO 50001 certification	100	The company shall maintain certification in the energy management standard, ISO 50001 through internal audits and external surveillance audits	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Review water usage at AbbVie	0	Carry out a water opportunities' assessment in 2015 & include potential projects into the 2020 Sustainability LRP.	Section Head	Improved Environmental Management Practices

Programme/Continuous			Lic No:	P0643-02	Year	2015
Waste reduction/Raw material usage efficiency	Determine requirement for water minimisation programme	100	Carry out a survey to determine efficiency of raw material usage at AbbVie for new product introductions. Solvent is monitored per campaign currently. This will be reviewed annually.	Section Head		Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Review raw material usage at AbbVie	100	Achieve 5% reduction in CO2 emissions for 2015	Section Head		Reduced emissions
Waste reduction/Raw material usage efficiency	Determine requirement for raw material minimisation programme	100	Support the implementation of a new Thermal Oxidiser for non-chlorinated processes as per the EPA approved Test programme	Section Head		Installation of infrastructure
Reduction of emissions to Air	Maintain a preventative maintenance programme for the Thermal Oxidiser, Cryogenic Condenser, Scrubber and the continuous emission monitors	100	Support the license review for the new TO to be approved for the use of both chlorinated and non-chlorinated waste streams	Section Head		Improved Environmental Management Practices
Reduction of emissions to Air	Eliminate/minimise thermal oxidiser shutdown events	100	Submit an RFA for new products introductions to the EPA in advance of process commencing	Section Head		Improved Environmental Management Practices
Reduction of emissions to Air	Undertake a programme to identify fugitive emissions to air from activities at AbbVie	60	Maintain a preventative maintenance programme for the Thermal Oxidiser, Cryogenic Condenser, Scrubber and the continuous emission monitors.	Section Head		Reduced number of bypasses
Reduction of emissions to Air	Maintain a programme of leak testing of refrigeration and air conditioning systems containing fluorinated refrigerant gases	50	Maintain a response programme to eliminate/minimise thermal oxidiser shutdown events.	Section Head		Reduced number of bypasses

Programme/Continuous		Lic No:	P0643-02	Year	2015
Materials Handling/Storage/Bunding	Prepare a Bund Integrity Assessment	100	The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored therein must be tested and demonstrated. The results must be reported to the Agency. This must be repeated every three years.	Section Head	Increased compliance with licence conditions
Materials Handling/Storage/Bunding	Conduct annual testing of foul sewer line and testing of double contained lines every three years	100	The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored therein must be tested and demonstrated. The results must be reported to the Agency. This must be repeated every three years.	Section Head	Increased compliance with licence conditions
Noise reduction	Conduct annual noise survey	100	Conduct annual noise survey	Section Head	Increased compliance with licence conditions
Waste reduction/Raw material usage efficiency	Maintain procedures for waste handling storage and disposal	100	In order to ensure that waste is handled stored and disposed of in an appropriate manner it is necessary to have written procedures to control the handling storage and disposal of waste. Employees will be trained on these procedures as part of the on-going training programme.	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Investigation of on site recovery of solvent waste	100	Introduce new lab waste segregation improvement process in the labs.	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Waste contractors will be audited on a five year basis.	100	Waste vendors due for reaudit as per the AbbVie waste vendor global standard	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Reduce waste going to landfill	100	Maintain zero waste to landfill	Section Head	Reduced emissions
Waste reduction/Raw material usage efficiency	Reduce waste going to landfill	100	Set up a green waste team	Section Head	Reduced emissions

Programme/Continuous		Lic No:	P0643-02	Year	2015
Waste reduction/Raw material usage efficiency	Adoption of Cleaner Technology in All New developments	100	In order to ensure that the potential environmental impact of any proposed developments is considered in the future AbbVie intend to introduce a procedure where the environmental impact of the development is considered at the design stage, thereby facilitating the incorporation of clean technology in all developments as far as is practicably possible.	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Substitution of harmful substances	100	The company shall examine, at least annually, the possibility of substituting 2-Methoxyethanol, the List I substances and the List II substances used onsite with less harmful substances.	Section Head	Reduced emissions

Programme/Continuous		Lic No:	P0643-02	Year	2015
Waste reduction/Raw material usage efficiency	Substitution of Risk Phrase VOCs	100	<p>Any substance or preparation, which, because of its content of VOCs classified as carcinogens, mutagens or toxic to reproduction under Directive 67/548/EEC, is assigned or needs to carry the risk phrases R45, R46, R49, R60, R61 shall be replaced, as far as possible within the shortest possible timeframe and, taking into account article 20(1)(b) of S.I. No. 543 of 2002, by less harmful substances or preparations. Guidance on replacement given in Council Directive 1999/13/EC shall be observed.</p> <p>Measures for replacement of such substances or preparations shall be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2.2.2.2.</p>	Section Head	Reduced emissions

Noise monitoring summary report

Lic No: P0643-02

Year

2015

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?

No

4 When was the noise reduction plan last updated?

n/a

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 _{eq}	LA ₉₀	LA ₁₀	LA _{max}	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 <u>site</u> compliant with noise limits (day/evening/night)?
25-Sep-15	15:04	B1		47	60	48	46	No	n/a	Road traffic noise in addition to distant construction noise main sources Plant noise also audible	Yes
25-Sep-15	16:13	B1		49	58	50	47	No	n/a	Road traffic noise in addition to distant construction noise main sources Plant noise also audible	Yes
25-Sep-15	23:26	B1		43	53	44	41	No	n/a	Plant noise audible at low level. Background noise from road traffic.	Yes
25-Sep-15	14:35	B2		47	52	48	47	No	n/a	Plant noise main background source. Traffic along N16 also contributes.	Yes
25-Sep-15	15:50	B2		48	60	48	47	No	n/a	Plant noise main background source. Traffic along N16 also contributes.	Yes

25-Sep-15	23:01	B2		46	62	47	45	No	n/a	Plant noise main noise source. Distant road traffic noise audible at low level.	Yes
25-Sep-15	14:14	B3		52	58	53	50	No	n/a	Plant emissions main source noted. Intermittent on-site facility traffic in addition to traffic along the N16 Road.	Yes
25-Sep-15	15:30	B3		52	59	53	50	No	n/a	Plant emissions main source noted. Intermittent on-site facility traffic in addition to traffic along the N16 Road.	Yes
25-Sep-15	22:41	B3		51	61	52	50	No	n/a	Plant main source in addition to background noise from N16 Road.	Yes
25-Sep-15	17:07	B4	NSL1	50	62	51	47	No	n/a	Road traffic along N16 main source. Abbvie plant not audible	Yes
25-Sep-15	18:15	B4	NSL1	48	68	50	45	No	n/a	Road traffic along N16 main source. Abbvie plant not audible	Yes
26-Sep-15	00:12	B4	NSL1	48	75	45	40	No	n/a	Intermittent road traffic main source. Plant noise audible at low level	Yes
26-Sep-15	01:26	B4	NSL1	41	58	42	39	No	n/a	Intermittent road traffic main source. Plant noise audible at low level	Yes
25-Sep-15	17:29		NSL2	52	62	55	46	No	n/a	Intermittent road traffic main source. Plant noise audible at low level	Yes

25-Sep-15	18:39		NSL2	50	61	52	44	No	n/a	Intermittent road traffic main source. Plant noise audible at low level	Yes
26-Sep-15	00:35		NSL2	49	66	54	40	No	n/a	Road traffic is the dominant noise source. Plant emissions also audible at low level.	Yes
25-Sep-15	01:49		NSL2	46	66	50	39	No	n/a	Road traffic is the dominant noise source. Plant emissions also audible at low level.	Yes
25-Sep-15	17:51		NSL 3	62	71	66	49	No	n/a	Road traffic passing along N16 main noise source. Plant emissions not audible.	Yes
25-Sep-15	19:00		NSL 3	60	71	65	44	No	n/a	Road traffic passing along N16 main noise source. Plant emissions not audible.	Yes
26-Sep-15	01:01		NSL 3	48	70	45	37	No	n/a	Passing intermittent traffic along N16 main source. Plant emissions also audible at low level.	Yes
26-Sep-15	02:13		NSL 3	52	77	44	38	No	n/a	Passing intermittent traffic along N16 main source. Plant emissions also audible at low level.	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?

n/a

** 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:

P0643-02

Year

2015

1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information

3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Additional information

30/10/2015	Audits are carried out annually - AbbVie achieved ISO50001:2011 in 2013.
Yes	Member of SEAI - LIEN Group and part of the American Chamber of Commerce Energy Sub-Group
Yes	

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	10737	10823		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	10737	10823		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	1314	1053		
Natural gas (m3)	468	321,150		
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

* 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

Resource Usage/Energy efficiency summary	Lic No:	P0643-02	Year	2015
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Table R2 Water usage on site					Water Emissions	Water Consumption	
	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	80,869	91,304			8801	7392	
Recycled water							
Total	80,869	91,304			8801	7392	

* 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)	2851.06				
Non-Hazardous (Tonnes)	117.17				

Resource Usage/Energy efficiency summary	Lic No: P0643-02	Year	2015
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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
30/10/2015	1 no. non-conformance - The energy review process does not meet the requirements of the standard	Abbvie to implement corrective action plan	energy audit	n/a	Ongoing	Energy Team Leader	Ongoing	Ongoing
30/10/2015	OFI02/14 & OFI03/14 recommendations from 2014 are open	2014 recommendations are currently within company corrective action system	energy audit	n/a	Ongoing	Energy Team Leader	Ongoing	Ongoing
			SELECT					

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	Station Total
Technology	Trial Wind Mast			
Primary Fuel	Wind			
Thermal Efficiency	n/a			
Unit Date of Commission	23-Dec-14			
Total Starts for year	n/a			
Total Running Time	n/a			
Total Electricity Generated (GWH)	trial			
House Load (GWH)	n/a			
KWH per Litre of Process Water	n/a			
KWH per Litre of Total Water used on Site				



Environmental Protection Agency

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2015
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1. FACILITY IDENTIFICATION

Parent Company Name	AbbVie Ireland NL B.V.
Facility Name	AbbVie Ireland NL B.V.
PRTR Identification Number	P0643
Licence Number	P0643-03

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Manorhamilton Road
Address 2	Sligo
Address 3	
Address 4	
	Sligo
Country	Ireland
Coordinates of Location	-8.45312 54.2850
River Basin District	IEWE
NACE Code	2120
Main Economic Activity	Manufacture of pharmaceutical preparations
AER Returns Contact Name	Lorraine Gillespie
AER Returns Contact Email Address	lorraine.gillespie@abbvie.com
AER Returns Contact Position	EHS Team Leader
AER Returns Contact Telephone Number	071-9137785
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	1
Number of Operating Hours in Year	8712
Number of Employees	200
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
4(e)	Installations using a chemical or biological process for the production on an industrial scale of basic pharmaceutical products

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) ?	
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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#: P0643 | Facility Name : AbbVie Ireland NL B.V. | Filename : P0643_2015.xls | Return Year : 2015 |

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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 & A1-2				A (Accidental) KG/Year	F (Fugitive) KG/Year
					Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year		
11	Sulphur oxides (SOx/SO2)	M	OTH	Continuous by Infrared Analyser	220.36	0.0	0.0	220.36	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	OTH	Continuous by Infrared Analyser	12881.05	0.0	0.0	12881.05	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				QUANTITY	
No. Annex II	Name	M/C/E	Method Code	Designation or Description	A1-1 & A1-2				A (Accidental) KG/Year	F (Fugitive) KG/Year
					Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year		
02	Carbon monoxide (CO)	M	OTH	Continuous by Infrared Analyser	1825.48	0.0	0.0	1825.48	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				QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	A2-1(a)	A2-1(b)	A2-3	A2-4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4			
244	Total Particulates	M	OTH		0.0	0.0	5.65	7.26	12.91	0.0	0.0
202	2-methoxyethanol	M	OTH	Adsorption, absorption and GCMS	34.59	6.53	0.0	0.0	41.12	0.0	0.0
230	TA Luft organic substances class 1	M	OTH	VDI 3481 Adsorption, absorption and GCMS	36.04	4.56	0.0	0.0	40.6	0.0	0.0
209	Dimethylformamide	M	OTH	Adsorption, absorption and GCMS	34.59	6.53	0.0	0.0	41.12	0.0	0.0
351	Total Organic Carbon (as C)	M	OTH	Continuous using flame ionisation detection	3.99	0.49	0.0	0.0	4.48	0.0	0.0
231	TA Luft organic substances class 2	M	OTH	US EPA Method 18 Adsorption, absorption and GCMS	36.04	4.56	0.0	0.0	40.6	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:	AbbVie Ireland NL B.V.			
Please enter summary data on the quantities of methane flared and / or utilised				
	T (Total) kg/Year	M/C/E	Method Used	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#: P0643 | Facility Name : AbbVie Ireland NL B.V. | Filename : P0643_2015.xls | Return Year : 2015 |

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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 onl

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		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 PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		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)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
Pollutant No.	Name		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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR#: P0643 | Facility Name : AbbVie Ireland NL B.V. | Filename : P0643_2015.xls | Return Year

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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	Method Used	SE-1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				Designation or Description	Emission Point 1			
06	Ammonia (NH3)	M	OTH	Spectrophotometry. Lab is on the Register of Quality Approved Labs submitting Data to EPA	14.58	14.58	0.0	0.0
13	Total phosphorus	M	OTH	ICP-AES.	33.07	0.0	0.0	0.0
12	Total nitrogen	M	OTH	APHA/AWWA/WEF	74.56	74.56	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	Method Used	SE-1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				Designation or Description	Emission Point 1			
306	COD	M	OTH	Spectrophotometry. Lab is on the Register of Quality Approved Labs submitting Data to EPA.	216.51	216.51	0.0	0.0
303	BOD	M	OTH	5 Day Incubation & DO Probe. Lab is on the Register of Quality Approved Labs submitting Data to EPA.	164.8	164.8	0.0	0.0
240	Suspended Solids	M	OTH	Ion-selective electrode, spectrophotometry. Lab is on the Register of Quality Approved Labs submitting Data to EPA.	174.71	174.71	0.0	0.0
362	Kjeldahl Nitrogen	M	OTH	Digestion & Spectrophotometry. Lab is on the Register of Quality Approved Labs submitting Data to EPA	52.73	52.73	0.0	0.0
327	Nitrate (as N)	M	OTH	Ion Selective Electrode. Lab is on the Register of Quality Approved Labs submitting Data to EPA.	96.86	96.86	0.0	0.0
372	Nitrite (as N)	M	OTH	Spectrophotometry. Lab is on the Register of Quality Approved Labs submitting Data to EPA.	0.36	0.36	0.0	0.0
343	Sulphate	M	OTH	Turbidimetry. Lab is on the Register of Quality Approved Labs submitting Data to EPA.	1221.77	1221.77	0.0	0.0
314	Fats, Oils and Greases	M	OTH	Standard Method	50.88	50.88	0.0	0.0
308	Detergents (as MBAS)	M	OTH	Standard Method	2.14	2.14	0.0	0.0
					0.0	0.0	0.0	0.0

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : P0643 | Facility Name : AbbVie Ireland NL B.V. | Filename : P0643_2015.xls | Return Year : 2015 |

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SECTION A : PRTR POLLUTANTS

POLLUTANT		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)

POLLUTANT		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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : P0643 | Facility Name : AbbVie Ireland NL B.V. | Filename : P0643_2015.xls | Return Year : 2015 |

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Please enter all quantities on this sheet in Tonnes

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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)
						Haz Waste : Name and Licence/Permit No of Recover/Disposer			Non Haz Waste: Address of Recover/Disposer				
						MC/E	Method Used						
To Other Countries	06 01 06	Yes	0.415	other acids	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02		Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	06 02 04	Yes	0.01	sodium and potassium hydroxide	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02		Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	06 02 05	Yes	0.139	other bases	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02		Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	07 05 01	Yes	25.44	aqueous washing liquids and mother liquors	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02		Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Borsignstrasse 2,,Hamburg,22113,Germany
To Other Countries	07 05 01	Yes	328.796	aqueous washing liquids and mother liquors	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02		Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	07 05 01	Yes	1542.72	aqueous washing liquids and mother liquors	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02		Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	ZI La Soudiere,Route de Soissons,02300 Chauny,,France
To Other Countries	07 05 03	Yes	98.4	organic halogenated solvents, washing liquids and mother liquors	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02		Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium

To Other Countries	07 05 04	Yes	22.82	other organic solvents, washing liquids and mother liquors	D15	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	AVG (Abfall Verwertungs Gesellschaft GmbH,B01VS0013 B01CA0012 B01BA0286,Borsignstrasse 2,,Hamburg,22113,Germany Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium Indaver Ireland Limited,W0036-02 ,Tolka Quay Road,Dublin Port,Dublin 1,,Ireland ARF,AP4_07_2009,ZI La Soudiere,Route de Soissons,02300 Chauny,,France Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Borsignstrasse 2,,Hamburg,22113,Germany Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium Tolka Quay Road,Dublin Port,Dublin 1,,Ireland ZI La Soudiere,Route de Soissons,02300 Chauny,,France Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	07 05 04	Yes	45.065	other organic solvents, washing liquids and mother liquors	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver Ireland Limited,W0036-02 ,Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland
Within the Country	07 05 04	Yes	374.95	other organic solvents, washing liquids and mother liquors	R1	M	Weighed	Offsite in Ireland	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland
To Other Countries	07 05 04	Yes	43.24	other organic solvents, washing liquids and mother liquors	R1	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	ZI La Soudiere,Route de Soissons,02300 Chauny,,France
To Other Countries	07 05 13	Yes	7.603	solid wastes containing dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	13 01 13	Yes	0.924	other hydraulic oils	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	13 03 10	Yes	2.106	other insulating and heat transmission oils	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
Within the Country	15 01 01	No	5.38	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Bruscar Bheama Teoranta,W0106-02	Carrowbrowne,,Headford Road Galway,,Ireland	Carrowbrowne,,Headford Road Galway,,Ireland	
Within the Country	15 01 06	No	22.405	mixed packaging	R3	M	Weighed	Offsite in Ireland	Bruscar Bheama Teoranta,W0106-02	Carrowbrowne,,Headford Road Galway,,Ireland	Carrowbrowne,,Headford Road Galway,,Ireland	
To Other Countries	15 01 10	Yes	0.107	packaging containing residues of or contaminated by dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	AVG (Abfall Verwertungs Gesellschaft GmbH,B01VS0013 B01CA0012 B01BA0286,Borsignstrasse 2,,Hamburg,22113,Germany Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	15 01 10	Yes	13.797	packaging containing residues of or contaminated by dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	15 02 02	Yes	33.75	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
Within the Country	16 02 13	Yes	2.642	discarded equipment containing hazardous components (16) other than those mentioned in 16 02 09 to 16 02 12	R4	M	Weighed	Offsite in Ireland	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Co.Offally,Ireland
To Other Countries	16 03 03	Yes	0.954	inorganic wastes containing dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium

To Other Countries	16 05 04	Yes	0.02	gases in pressure containers (including halons) containing dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	16 05 06	Yes	0.52	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	16 05 06	Yes	0.263	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	AVG (Abfall Verwertungs Gesellschaft GmbH,B01VS0013 B01CA0012 B01BA0286,Borsignstrasse 2,,Hamburg,22113,Germany	Borsignstrasse 2,,Hamburg,22113,Germany
To Other Countries	16 05 07	Yes	0.073	discarded inorganic chemicals consisting of or containing dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
Within the Country	20 01 08	No	6.849	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Teoranta,W0106-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Irish Lamp Recycling Co Ltd.,WFP-KE-14-0072-01,Woodstock Industrial Estate,Kilkenny Road,Athy,Co. Kildare,Ireland	Woodstock Industrial Estate,Kilkenny Road,Athy,Co. Kildare,Ireland
Within the Country	20 01 21	Yes	0.06	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Bruscar Bhearna Carrowbrowne,,Headford Road Galway,,Ireland	
Within the Country	20 01 38	No	11.74	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Teoranta,W0106-02	Bruscar Bhearna Carrowbrowne,,Headford Road Galway,,Ireland		
Within the Country	20 01 39	No	7.948	plastics	R3	M	Weighed	Offsite in Ireland	Teoranta,W0106-02	Bruscar Bhearna Carrowbrowne,,Headford Road Galway,,Ireland		
Within the Country	20 01 40	No	8.56	metals	R4	M	Weighed	Offsite in Ireland	Teoranta,W0106-02	Bruscar Bhearna Carrowbrowne,,Headford Road Galway,,Ireland		
Within the Country	20 03 01	No	33.644	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Teoranta,W0106-02	Bruscar Bhearna Carrowbrowne,,Headford Road Galway,,Ireland		
Within the Country	20 03 07	No	19.944	bulky waste	R1	M	Weighed	Offsite in Ireland	Teoranta,W0106-02	Bruscar Bhearna Carrowbrowne,,Headford Road Galway,,Ireland		
To Other Countries	07 05 01	Yes	91.9	aqueous washing liquids and mother liquors	D15	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	ARF,AP4_07_2009,ZI La Soudiere,Route de Soissons,02300 Chauny,,France	ZI La Soudiere,Route de Soissons,02300 Chauny,,France
To Other Countries	07 05 01	Yes	46.26	aqueous washing liquids and mother liquors	D15	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV /bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
Within the Country	07 05 01	Yes	116.52	aqueous washing liquids and mother liquors	D10	M	Weighed	Offsite in Ireland	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver Ireland Limited,W0036-02 ,Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland

To Other Countries	06 02 05	Yes	0.317 other bases	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	AVG (Abfall Verwertungs Gesellschaft GmbH,B01VS0013 B01CA0012 B01BA0286,Borsignstrasse 2,,Hamburg,22113,Germany	Borsignstrasse 2,,Hamburg,22113,Germany
To Other Countries	07 05 04	Yes	20.84 other organic solvents, washing liquids and mother liquors	D15	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	ARF,AP4_07_2009,ZI La Soudiere,Route de Soissons,02300 Chauny,,France	ZI La Soudiere,Route de Soissons,02300 Chauny,,France
To Other Countries	07 05 13	Yes	0.029 solid wastes containing dangerous substances	D15	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV/bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	07 05 13	Yes	0.163 solid wastes containing dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland Unit 3, Syngelfield Industrial Estate,Birr Co. Offaly,Ireland	AVG (Abfall Verwertungs Gesellschaft GmbH,B01VS0013 B01CA0012 B01BA0286,Borsignstrasse 2,,Hamburg,22113,Germany	Borsignstrasse 2,,Hamburg,22113,Germany
Within the Country	08 03 18	No	0.695 waste printing toner other than those mentioned in 08 03 17	R3	M	Weighed	Offsite in Ireland	Source Imaging Ltd.,			
Within the Country	13 02 08	Yes	14.84 other engine, gear and lubricating oils	D9	M	Weighed	Offsite in Ireland	Enva Ireland Ltd,COR-MH-14-003-01	Cloneylogan,Kildalkey,Co. Meath,,Ireland	Enva Ireland Ltd,COR-MH-14-003-01,Cloneylogan,Kildalkey,Co. Meath,,Ireland	Cloneylogan,Kildalkey,Co. Meath,,Ireland
Within the Country	16 02 11	Yes	0.025 discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighed	Offsite in Ireland	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	KMK Metals,W0113-03 ,Cappincur Industrial Estate,Daingean Road,Tullamore,Co.Offaly,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Co.Offaly,Ireland
To Other Countries	16 03 05	Yes	12.908 organic wastes containing dangerous substances	D10	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver NV,MLAV1/9800000485/MV/bd ,Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
To Other Countries	16 05 06	Yes	0.02 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	D15	M	Weighed	Abroad	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver Ireland Limited,W0036-02 ,Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Poldervlietweg 5,Haven 550 2030,Antwerp,,Belgium
Within the Country	16 05 06	Yes	0.026 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	D15	M	Weighed	Offsite in Ireland	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	KMK Metals,W0113-03 ,Cappincur Industrial Estate,Daingean Road,Tullamore,Co.Offaly,Ireland	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland
Within the Country	16 06 01	Yes	2.394 lead batteries	R4	M	Weighed	Offsite in Ireland	Indaver Ireland Limited,W0036-02	Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Indaver Ireland Limited,W0036-02 ,Tolka Quay Road,Dublin Port,Dublin 1,,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Co.Offaly,Ireland

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