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se include an appendix to the AER template and merge it as part of the AER PDF document. The excel  
ately so that all text is readable before it is converted to PDF document.

Facility Information Summary	
AER Reporting Year	2014
Licence Register Number	W0068-03
Name of site	Youghal Landfill
Site Location	Foxhole, Youghal, co.Cork
NACE Code	3821
Class/Classes of Activity	5(c), 5(d), 50.1
National Grid Reference (6E, 6 N)	2100E 0800N
<p>A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year <b>and an overview of compliance with your licence</b> <u>listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</u></p>	<p>Youghal landfill accepted waste at the facility until February 2012. Since that date only cover material (soil and stones) and road building material (suitable C&amp;D material) has been accepted to allow for a "pre-capping" profile to be constructed on Cell 9. This work continued in 2014 and a void of 200m<sup>3</sup> is still available whenever the management of the facility decide to fill it. A capping design is currently ongoing. The environmental performance of the facility has continued to improve by comparison with previous years. Only one odour complaint was registered in 2014. The gas extraction system has continued to perform well with 1 the enclosed flare burning off the gas generated. The daily attendance and well leachate removal has ensured increased effective length of the gas wells and, hence, the proper functioning of the system. Minor exceedences have again been measured in the perimeter gas wells but are explained by the estuarine conditions that account for naturally occurring CO<sub>2</sub>. Both Leachate and groundwater results are similar to previous years. The noise survey was compliant for the year as would be expected with the removal of the large landfill compacting plant from the site. Overall the site has been compliant with its Licence.</p>

**Declaration:**

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

	27/03/2015
Signature	Date
Grc (or nr experienced deputy)	

**AIR-summary template**

Lic No:

W0068-03

Year

2014

Answer all questions and complete all tables where relevant

Additional information

- 1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Yes

**Periodic/Non-Continuous Monitoring**

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

No

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

Yes

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
Flare Stack	Methane (CH4)	Continuous	N/A	SELECT	876857	m3	yes	MAB	596263	Annual mass load refers to difference
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT	575678	m3	yes	ISO 12039:2001	1076519	Annual mass load refers to difference
Flare Stack	Carbon monoxide (CO)	Continuous	<50mg/Nm3	No 30min mean can exceed the ELV	2.49	mg/Nm3	yes	ISO 12039:2001	8.38	
Flare Stack	Nitrogen oxides (NOx/NO2)	Annual	<150mg/Nm3	No 30min mean can exceed the ELV	112.69	mg/Nm3	yes	EN 14792:2005	379.34	
Flare Stack	Sulphur oxides (SOx/SO2)	Annual	N/A		69.55	mg/Nm3	yes	EN 14791:2005	234.12	

<b>AIR-summary template</b>	Lic No: W0068-03	Year: 2014
<b>Continuous Monitoring</b>		

4	Does your site carry out continuous air emissions monitoring? If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)	Yes	
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	Yes	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	
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 therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
Flare Stack	PRTR	N/A	12 month	100 % of values < ELV	m3			59	0	One enclosed flare operating on site for 2014
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

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

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

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

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

<b>AIR-summary template</b>		Lic No: W0068-03	Year: 2014					
<b>Solvent use and management on site</b>								
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			No					
<b>Table A4: Solvent Management Plan Summary</b>		Please refer to linked solvent regulations to complete table 5 and 6						
<b>Total VOC Emission limit value</b>		<a href="#">Solvent regulations</a>						
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Compliance					
			Total VOC emissions as %of solvent input Total Emission Limit Value (ELV) in licence or any revision thereof					
			SELECT					
			SELECT					
<b>Table A5: Solvent Mass Balance summary</b>								
	(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. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
								Total

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

Lic No:

W0068-03

Year

2014

**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 licensed emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

No	
No	

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

**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
SW1	upstream		pH	Quarterly	No ELV or trigger levels	N/A	7.65	pH units	yes	Median Value for 2014
SW1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	14.15	degrees C	yes	Median Value for 2014
SW1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	585.75	µS/cm@25oC	yes	Median Value for 2014
SW1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	72%	mg/L	yes	Median Value for 2014
SW1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	7972	mg/L	yes	Median Value for 2014. sw1 is influenced by saline water.
SW1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	1	mg/L	yes	Median Value for 2014
SW1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	10	mg/L	yes	Median Value for 2014
SW1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.8325	mg/L	yes	Median Value for 2014
SW1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	96	mg/L	yes	Median Value for 2014
SW1	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	3.00	µg/L	yes	Annual result
SW1	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	5.00	mg/L	yes	Annual result
SW1	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result
SW1	upstream		Iron	Annual	No ELV or trigger levels	N/A	59.00	µg/L	yes	Annual result
SW1	upstream		Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	23.00	µg/L	yes	Annual result
SW1	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	1350.00	mg/L	yes	Annual result
SW1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	<5	µg/L	yes	Annual result
SW1	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.05	µg/L	yes	Annual result
SW1	upstream		Potassium	Annual	No ELV or trigger levels	N/A	200.00	mg/L	yes	Annual result. SALINE WATERS
SW1	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	1191.00	mg/L	yes	Annual result. SALINE WATERS
SW1	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	2.60	mg/L	yes	Annual result
SW1	upstream		Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	<5	µg/L	yes	Annual result
SW1	upstream		Total phosphorus	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result
SW2	downstream		pH	Quarterly	No ELV or trigger levels	N/A	7	pH units	yes	Median Value for 2014
SW2	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	15	degrees C	yes	Median Value for 2014
SW2	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	12151	µS/cm@25oC	yes	Median Value for 2014
SW2	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	51	mg/L	yes	Median Value for 2014
SW2	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	4019	mg/L	yes	Median Value for 2014. SW2 is located along the mud bank and is tidal.
SW2	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	yes	Median Value for 2014
SW2	downstream		COD	Quarterly	No ELV or trigger levels	N/A	731	mg/L	yes	Median Value for 2014
SW2	downstream		Ammonia (as N)	Quarterly			2	mg/L	yes	Median Value for 2014
SW2	downstream		Suspended Solids	Quarterly			17	mg/L	yes	Median Value for 2014
SW2	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	4.00	µg/L	yes	Annual result
SW2	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	17.00	mg/L	yes	Annual result
SW2	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<20	µg/L	yes	Annual result
SW2	downstream		Iron	Annual	No ELV or trigger levels	N/A	927.00	µg/L	yes	Annual result

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0068-03 Year 2014

Station	Location	Parameter	Frequency	ELV/Trigger	Result	Unit	Compliance	Notes
SW2	downstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	6.00	µg/L	Annual result
SW2	downstream	Magnesium	Annual	No ELV or trigger levels	N/A	268.00	mg/L	Annual result
SW2	downstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	13.00	µg/L	Annual result
SW2	downstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	<0.05	µg/L	Annual result
SW2	downstream	Potassium	Annual	No ELV or trigger levels	N/A	449.00	mg/L	Annual result
SW2	downstream	Sulphate	Annual	No ELV or trigger levels	N/A	268.00	mg/L	Annual result
SW2	downstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	2.60	mg/L	Annual result
SW2	downstream	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	<5	µg/L	Annual result
SW2	downstream	Total phosphorus	Annual	No ELV or trigger levels	N/A		mg/L	Annual result
SW3	downstream	PH	Quarterly	No ELV or trigger levels	N/A	8	pH units	Median Value for 2014
SW3	downstream	Temperature	Quarterly	No ELV or trigger levels	N/A	15	degrees C	Median Value for 2014
SW3	downstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	24400	µS/cm@25oC	Median Value for 2014
SW3	downstream	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	0	mg/L	Median Value for 2014
SW3	downstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	18747	mg/L	Median Value for 2014. SW3 is located at the sluice gate and is tidal.
SW3	downstream	BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	Median Value for 2014
SW3	downstream	COD	Quarterly	No ELV or trigger levels	N/A	10	mg/L	Median Value for 2014
SW3	downstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	1	mg/L	Median Value for 2014
SW3	downstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	158	mg/L	Median Value for 2014
SW3	downstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	2.00	µg/L	Annual result
SW3	downstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	2.00	mg/L	Annual result
SW3	downstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	<20	µg/L	Annual result
SW3	downstream	Iron	Annual	No ELV or trigger levels	N/A	257.00	µg/L	Annual result
SW3	downstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	9.00	µg/L	Annual result
SW3	downstream	Magnesium	Annual	No ELV or trigger levels	N/A	1134.00	mg/L	Annual result for 2014. EQS limit is 50 mg/L. Elevated levels are
SW3	downstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	76.00	µg/L	Annual result
SW3	downstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	<0.05	µg/L	Annual result
SW3	downstream	Potassium	Annual	No ELV or trigger levels	N/A	134.00	mg/L	Annual result. SALINE WATERS
SW3	downstream	Sulphate	Annual	No ELV or trigger levels	N/A	1456.00	mg/L	Annual result. SALINE WATERS
SW3	downstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	2.60	mg/L	Annual result
SW3	downstream	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	<5	µg/L	Annual result
SW3	downstream	Total phosphorus	Annual	No ELV or trigger levels	N/A		mg/L	Annual result
SW6	downstream	PH	Quarterly	No ELV or trigger levels	N/A	7	pH units	Median Value for 2014
SW6	downstream	Temperature	Quarterly	No ELV or trigger levels	N/A	14	degrees C	Median Value for 2014
SW6	downstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	26	mS/cm@25oC	Median Value for 2014
SW6	downstream	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	1	mg/L	Median Value for 2014
SW6	downstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	10612	mg/L	Median Value for 2014. SW6 is located along the mud bank and is tidal.
SW6	downstream	BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	Median Value for 2014
SW6	downstream	COD	Quarterly	No ELV or trigger levels	N/A	20	mg/L	Median Value for 2014
SW6	downstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	3	mg/L	Median Value for 2014
SW6	downstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	163	mg/L	Median Value for 2014
SW6	downstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	2.00	µg/L	Annual result
SW6	downstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	9.00	mg/L	Annual result
SW6	downstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A	<20	µg/L	Annual result
SW6	downstream	Iron	Annual	No ELV or trigger levels	N/A	75.00	µg/L	Annual result
SW6	downstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	11.00	µg/L	Annual result



AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)				Lic No:	W0068-03	Year	2014			
SW6	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	1523.00	mg/L	yes	Annual result for 2014 EQS limit is 1500 mg/L
SW6	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	401.00	µg/L	yes	Annual result
SW6	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.05	µg/L	yes	Annual result
SW6	downstream		Potassium	Annual	No ELV or trigger levels	N/A	170.00	mg/L	yes	Annual result. This is saline water.
SW6	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	2197.00	mg/L	yes	Annual result. This is saline water.
SW6	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	2.60	mg/L	yes	Annual result
SW6	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<5	µg/L	yes	Annual result
SW6	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result
GA127	onsite		pH	Quarterly	No ELV or trigger levels	N/A	Dry	pH units	yes	Median Value for 2014
GA127	onsite		Temperature	Quarterly	No ELV or trigger levels	N/A	Dry	degrees C	yes	Median Value for 2014
GA127	onsite		Conductivity	Quarterly	No ELV or trigger levels	N/A	Dry	µS/cm@25oC	yes	Median Value for 2014
GA127	onsite	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	Dry	mg/L	yes	Median Value for 2014
GA127	onsite		BOD	Quarterly	No ELV or trigger levels	N/A	Dry	mg/L	yes	Median Value for 2014
GA127	onsite		COD	Quarterly	No ELV or trigger levels	N/A	Dry	mg/L	yes	Median Value for 2014
GA127	onsite		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	Dry	mg/L	yes	Median Value for 2014
GA127	onsite		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	Dry	mg/L	yes	Median Value for 2015
GA127	onsite	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	Dry	mg/L	yes	Annual result
GA127	onsite	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	Dry	µg/L	yes	Annual result
GA127	onsite	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	Dry	mg/L	yes	Annual result
GA127	onsite		Iron	Annual	No ELV or trigger levels	N/A	Dry	µg/L	yes	annual results
GA127	onsite	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	Dry	µg/L	yes	Annual result
GA127	onsite		Magnesium	Annual	No ELV or trigger levels	N/A	Dry	mg/L	yes	Annual result
GA127	onsite		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	Dry	µg/L	yes	Annual result
GA127	onsite	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	Dry	µg/L	yes	Annual result
GA127	onsite		Potassium	Annual	No ELV or trigger levels	N/A	Dry	µg/L	yes	Annual result
GA127	onsite		Sulphate	Annual	No ELV or trigger levels	N/A	Dry	mg/L	yes	Annual result
GA127	onsite		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	Dry	mg/L	yes	Annual result
GA127	onsite	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	Dry	µg/L	yes	Annual result
GA127	onsite	Total phosphorus		Annual	No ELV or trigger levels	N/A	Dry	mg/L	yes	Annual result
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

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

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

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

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

3	Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below	SELECT	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 require improvement in additional information box <a href="#">External /Internal Lab Quality Assessment of results checklist</a>	SELECT	

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

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)**      Lic No: W0068-03      Year: 2014

Emission reference no:	Emission released to	Parameter/ Substance Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof 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
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

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

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

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

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

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

**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
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					

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

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

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						<input type="text" value="SELECT"/>	

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

**Bund testing**

dropdown menu click to see options

**Additional information**

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

Yes	Only one bund test is required at the site for the leachate lagoon. The lagoon is used for storage of leachate prior to transport to local
3 years	
No	
1	
1	
1	
No	
1	
0	
N/A	
No	
N/A	
SELECT	

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

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

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
Leachate Lagoon	reinforced concrete	Liner covered concrete	Leachate	2000 m3	1500 m3	Structural assessment		Oct-08	Yes	Pass		SELECT	Apr-15	
	SELECT					SELECT			SELECT	SELECT		SELECT		

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

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

[bunding and storage guidelines](#)

Commentary	
Yes	
SELECT	
SELECT	

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

**Pipeline/underground structure testing**

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

SELECT	
SELECT	

- 1 Please provide integrity testing frequency period
- \*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

**Table B2: Summary details of 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

<b>Groundwater/Soil monitoring template</b>	Lic No: W0068-03	Year 2014
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			Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	
3	Do you extract groundwater for use on site? If yes please specify use in comment section	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. <a href="#">Groundwater monitoring template</a>	no	The groundwater results at the site are in line with previous years. No upward trend has been observed in 2013 compared with previous years.
5	Is the contamination related to operations at the facility (either current and/or historic)	SELECT	
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	SELECT	
7	Please specify the proposed time frame for the remediation strategy	SELECT	
8	Is there a licence condition to carry out/update ELRA for the site?	SELECT	
9	Has any type of risk assesment been carried out for the site?	SELECT	
10	Has a Conceptual Site Model been developed for the site?	SELECT	
11	Have potential receptors been identified on and off site?	SELECT	
12	Is there evidence that contamination is migrating offsite?	SELECT	

**Table 1: Upgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	IGV	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	MW4	pH	Meter	Quarterly	7	7	SELECT		9.5	no
Quarterly	MW4	Temp	Meter	Quarterly					25	no
Quarterly	MW4	Elec.Conductivity	Meter	Quarterly	1095	548			1000	no
Quarterly	MW4	Chlorides	titration	Quarterly	233	143	mg/l		250	no
Quarterly	MW4	Ammoniacal Nitorgen	ISE	Quarterly	1	1	mg/l		80mg/l* (Trigger limit)	no
Quarterly	MW4	Iron		Quarterly	53	40	ug/l		0.2	no
Quarterly	MW4	TON		Quarterly	4	4	ug/l		No abnormal change	no
Quarterly	MW4	TOC	HACH	Quarterly			mg/l		30mg/l (Tigger limit)	no
Annual	MW4	Cadmium		Annual	<0.5	<0.5	ug/l		0.005	no
Annual	MW4	Chromium (total)		Annual	12	12	ug/l		0.03	no
Annual	MW4	Copper		Annual	<1	<1	ug/l		0.03	no
Annual	MW4	Cyanide (Total)		Annual			ug/l		0.01	no
Annual	MW4	Lead		Annual	14	14	ug/l		0.01	no
Annual	MW4	Mangnesium		Annual	326	326	mg/l		50	no
Annual	MW4	Manganese		Annual	<5	<5	ug/l		0.05	no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014		
Annual	MW4	Mercury	Annual			ug/l	0.001	no
Annual	MW4	Nickle	Annual			ug/l	0.02	no
Annual	MW4	Potassium	Annual	286	286	mg/l	5	no
Annual	MW4	Sulphate	Annual	18.6	18.6	mg/l	200	no
Annual	MW4	Total Alkalinity	Annual	260	260	mg/l		no
Annual	MW4	Total Phosphorus	Annual	<0.05	<0.05	mg/l		no
Annual	MW4	Selenium, total	Annual		1	ug/l		
Annual	MW4	Thallium, total	Annual		<0.5	ug/l		
Annual	MW4	Tellurium, total	Annual		<0.5	ug/l		
Annual	MW4	Vanadium, total	Annual		<0.5	ug/l		
Annual	MW4	Phenols	Annual	<0.1	<0.1	ug/l	0.5	no
Annual	MW4	Acenaphthylene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Anthracene	Annual	<1.0	<1.0	ug/l	1000	no
Annual	MW4	Benzene	Annual	<1.0	<1.0	ug/l	1	no
Annual	MW4	Bromodichloromethane	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Bromoform	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Chloroform	Annual	<1.0	<1.0	ug/l	12	no
Annual	MW4	Chrysene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Dibromochloromethane	Annual	<0.1	<0.1	ug/l		no
Annual	MW4	Fluoranthene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Fluorene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Naphthalene	Annual	<1.0	<1.0	ug/l	1	no
Annual	MW4	Dibromochloromethane	Annual			ug/l		no
Annual	MW4	Pentachlorophenol	Annual	<1.0	<1.0	ug/l	2	no
Annual	MW4	Phenanthrene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Pyrene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Tetrachloroethene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Trichloroethene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	Hexachlorobenzene	Annual	<1.0	<1.0	ug/l	0.03	no
Annual	MW4	Hexachlorobutadiene	Annual	<1.0	<1.0	ug/l	0.1	no
Annual	MW4	2,4,6-Trichlorophenol	Annual	<0.1	<0.1	ug/l		no
Annual	MW4	2,4-Dichlorophenol	Annual	<0.1	<0.1	ug/l		no
Annual	MW4	2,4-Dimethylphenol	Annual	<0.1	<0.1	ug/l		no
Annual	MW4	2-Chlorophenol	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	1,2,4-trichlorobenzene	Annual	<1.0	<1.0	ug/l		no
Annual	MW4	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l	10	no
Annual	MW4	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014	
Annual	MW4	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	2,4,5-Trichlorophenol	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	2-Chloronaphthalene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	2-Methylnaphthalene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	2-Methylphenol	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	2-Nitrophenol	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	4-Bromophenyl Phenyl Ether	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	4-Chloro-3-methylphenol	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	4-Chlorophenyl phenyl ether	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	4-Nitrophenol	Annual	<5.0	<5.0	ug/l	no
Annual	MW4	Acenaphthene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Benzo(a)pyrene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Benzyl Butyl Phthalate	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Bis(2-chloroethoxy)methane	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Bis(2-chloroethyl)ether	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Bis(2-chloroisopropyl)ether	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Bis(2-ethylhexyl)phthalate	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Dibenz(a,h)anthracene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Dibenzofuran	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Diethylphthalate	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	di-n-Butylphthalate	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Di-n-octylphthalate	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Diphenylamine	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Hexachloroethane	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Indeno(1,2,3-c,d)pyrene	Annual	<1.0	<1.0	ug/l	no
Annual	MW4	Isophorone	Annual	<1.0	<1.0	ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014				
Annual	MW4	Nitrobenzene		Annual	<1.0	<1.0	ug/l		10	no
Annual	MW4	n-Nitrosodi-n-propylamine		Annual			ug/l			no
Annual	MW4	Acetone		Annual			ug/l			no
Annual	MW4	Dichloromethane		Annual	15.6	15.6	ug/l		0.04	no
Annual	MW4	Tetrahydrofuran		Annual			ug/l			no
Annual	MW4	Toluene		Annual	<1.0	<1.0	ug/l		10	no
Annual	MW4	Xylene-o		Annual	<1.0	<1.0	ug/l		10	no
Annual	MW4	Dichlorodifluoromethane		Annual	100.2	100.2	ug/l			no
Annual	MW4	Chloromethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Ethyl Chloride/Chloroethane		Annual	<0.5	<0.5	ug/l			no
Annual	MW4	Vinyl Chloride		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Bromomethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Trichloromonofluoromethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Ethyl Ether/Diethyl Ether		Annual			ug/l			no
Annual	MW4	1,1 Dichloroethene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Iodomethane/Methyl Iodide		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	Carbon Disulphide		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	Allyl Chloride		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	Chloromethyl Cyanide/Chloroacetonitrile		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	Propanenitrile		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	Trans-1,2 Dichloroethene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	MtBE		Annual	<1.0	<1.0	ug/l		30	no
Annual	MW4	1,1-dichloroethane		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	2,2-dichloropropane		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	cis-1,2 Dichloroethene		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	2-Butanone		Annual			ug/l			no
Annual	MW4	Methyl Acrylate		Annual			ug/l			no
Annual	MW4	Bromochloromethane		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	Methacrylonitrile		Annual			ug/l			no
Annual	MW4	1,1,1-trichloroethane		Annual	<1.0	<1.0	ug/l		500	no
Annual	MW4	1-Chlorobutane		Annual			ug/l			no
Annual	MW4	Carbon Tetrachloride		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	1,1 Dichloropropene		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	1,2 dichloroethane		Annual	<1.0	<1.0	ug/l			no



Groundwater/Soil monitoring template				Lic No:	W0068-03	Year	2014			
Annual	MW4	1,2-dichloropropane		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	Dibromomethane		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	Methyl Methacrylate		Annual	<1.0	<1.0	ug/l			no
Annual	MW4	1,3-Dichloropropene, cis		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	MIBK/4 Methyl 2 Pentanone		Annual			ug/l			no
Annual	MW4	1,3-Dichloropropene, trans		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Ethyl Methacrylate		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	1,1,2-Trichloroethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	1,3-dichloropropane		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	2-Hexanone		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	1,2-dibromoethane		Annual	0.1	0.1	ug/l			no
Annual	MW4	Chlorobenzene		Annual	0.1	0.1	ug/l			1 no
Annual	MW4	1,1,1,2-tetrachloroethane		Annual	0.1	0.1	ug/l			no
Annual	MW4	Ethylbenzene		Annual	<0.1	<0.1	ug/l			10 no
Annual	MW4	Xylene P&M		Annual	<0.1	<0.1	ug/l			10 no
Annual	MW4	Styrene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Isopropylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Bromobenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	1,1,2,2-tetrachloroethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	1,2,3-trichloropropane		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Trans 1,2-Dichloro Butene, trans		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Propylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	2-chlorotoluene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	4-chlorotoluene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	1,3,5-trimethylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	Tert Butyl Benzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	1,2,4-trimethylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	sec-butylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW4	p-Isopropyltoluene		Annual	<0.1	<0.1	ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0068-03	Year	2014		
Annual	MW4	N Butyl Benzene		Annual	<0.1	<0.1	ug/l		no
Annual	MW4	1,2-dibromo-3-chloropropane		Annual	<2.0	<2.0	ug/l		no
Annual	MW4	1,2,3-trichlorobenzene		Annual	<0.1	<0.1	ug/l		no
Annual	MW4	SVOC		Annual	<5.0	<5.0			
Annual	MW4	OPP		Annual	<0.020	<0.020	ug/l		
Annual	MW4	OCP		Annual	<10	<10	ng/l		
Annual	MW4	Triazine herbicides		Annual	<0.020	<0.020	ug/l		
Annual	MW4	VOC		Annual	<5.0	<5.0	ug/l		
Quarterly	MW7	pH	Meter	Quarterly				9.5	data not available
Quarterly	MW7	Temp	Meter	Quarterly				25	data not available
Quarterly	MW7	Elec.Conductivity	Meter	Quarterly				1000	no
Quarterly	MW7	Chlorides	titration	Quarterly			mg/l	250	no
Quarterly	MW7	Ammoniacal Nitrogen	ISE	Quarterly			mg/l	0.02	no
Quarterly	MW7	Iron		Quarterly			ug/l	0.2	no
Quarterly	MW7	TON		Quarterly			mg/l	No abnormal change	no
Quarterly	MW7	TOC	HACH	Quarterly			mg/l		no
Annual	MW7	Cadmium		Annual	<0.5	<0.5	ug/l	0.005	no
Annual	MW7	Chromium (total)		Annual	0.6	0.6	ug/l	0.03	no
Annual	MW7	Copper		Annual	4	4	ug/l	0.03	no
Annual	MW7	Cyanide (Total)		Annual			ug/l	0.01	no
Annual	MW7	Lead		Annual	9	9	ug/l	0.01	no
Annual	MW7	Magnesium		Annual	108	108	mg/l	50	no
Annual	MW7	Manganese		Annual	2860	2860	ug/l	0.05	no
Annual	MW7	Mercury		Annual			ug/l	0.001	no
Annual	MW7	Nickle		Annual			ug/l	0.02	no
Annual	MW7	Potassium		Annual	113	113	mg/l	5	no
Annual	MW7	Sulphate		Annual	<5.0	<5.0	mg/l	200	no
Annual	MW7	Total Alkalinity		Annual	1725	1725	mg/l		no
Annual	MW7	Total Phosphorus		Annual	0.25	0.25	mg/l		no
Annual	MW7	Selenium, total		Annual		<0.5	ug/l		
Annual	MW7	Thallium, total		Annual		<0.5	ug/l		
Annual	MW7	Tellurium, total		Annual		<0.5	ug/l		
Annual	MW7	Vanadium, total		Annual		2	ug/l		
Annual	MW7	Phenols		Annual	<0.8	<0.8	ug/l	0.5	no
Annual	MW7	Acenaphthylene		Annual	<8.0	<8.0	ug/l		no
Annual	MW7	Anthracene		Annual	<8.0	<8.0	ug/l	1000	no
Annual	MW7	Benzene		Annual	1.8	1.8	ug/l	1	no
Annual	MW7	Bromodichloromethane		Annual	<1.0	<1.0	ug/l		no
Annual	MW7	Bromoform		Annual	<1.0	<1.0	ug/l		no
Annual	MW7	Chloroform		Annual	<1.0	<1.0	ug/l	12	no
Annual	MW7	Chrysene		Annual	<8.0	<8.0	ug/l		no
Annual	MW7	Dibromochloromethane		Annual	<0.1	<0.1	ug/l		no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014			
Annual	MW7	Fluoranthene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	Fluorene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	Naphthalene	Annual	52.5	52.5	ug/l			1 yes
Annual	MW7	Dibromochloromethane	Annual			ug/l			no
Annual	MW7	Pentachlorophenol	Annual	<8.0	<8.0	ug/l			2 no
Annual	MW7	Phenanthrene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	Pyrene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	Tetrachloroethene	Annual	<1.0	<1.0	ug/l			no
Annual	MW7	Trichloroethene	Annual	<1.0	<1.0	ug/l			no
Annual	MW7	Hexachlorobenzene	Annual	<8.0	<8.0	ug/l		0.03	no
Annual	MW7	Hexachlorobutadiene	Annual	<1.0	<1.0	ug/l		0.1	no
Annual	MW7	2,4,6-Trichlorophenol	Annual	<0.8	<0.8	ug/l			no
Annual	MW7	2,4-Dichlorophenol	Annual	<0.8	<0.8	ug/l			no
Annual	MW7	2,4-Dimethylphenol	Annual	8.8	8.8	ug/l			no
Annual	MW7	2-Chlorophenol	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	1,2,4-trichlorobenzene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	1,2-dichlorobenzene	Annual	<8.0	<8.0	ug/l		10	no
Annual	MW7	1,3-dichlorobenzene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	1,4-dichlorobenzene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	2,4,5-Trichlorophenol	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	2,4-Dinitrotoluene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	2,6-Dinitrotoluene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	2-Chloronaphthalene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	2-Methylnaphthalene	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	2-Methylphenol	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	2-Nitrophenol	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	4-Bromophenyl Phenyl Ether	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	4-Chloro-3-methylphenol	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	4-Chlorophenyl phenyl ether	Annual	<8.0	<8.0	ug/l			no
Annual	MW7	4-Nitrophenol	Annual	<40.0	<40.0	ug/l			no
Annual	MW7	Acenaphthene	Annual	<8.0	<8.0	ug/l			no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014	
Annual	MW7	Benzo(a)anthracene	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Benzo(a)pyrene	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Benzo(b)fluoranthene	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Benzo(g,h,i)perylene	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Benzyl Butyl Phthalate	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Bis(2-chloroethoxy)methane	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Bis(2-chloroethyl)ether	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Bis(2-chloroisopropyl)ether	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Bis(2-ethylhexyl)phthalate	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Dibenz(a,h)anthracene	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Dibenzofuran	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Diethylphthalate	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	di-n-Butylphthalate	Annual	<8.0	<8.0	ug/l	2 no
Annual	MW7	Di-n-octylphthalate	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Diphenylamine	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Hexachloroethane	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Indeno(1,2,3-c,d)pyrene	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Isophorone	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Nitrobenzene	Annual	<1.0	<1.0	ug/l	10 no
Annual	MW7	n-Nitrosodi-n-propylamine	Annual			ug/l	no
Annual	MW7	Acetone	Annual			ug/l	no
Annual	MW7	Dichloromethane	Annual	20	20	ug/l	0.04 no
Annual	MW7	Tetrahydrofuran	Annual			ug/l	no
Annual	MW7	Toluene	Annual	<1.0	<1.0	ug/l	10 no
Annual	MW7	Xylene -o	Annual	5.5	5.5	ug/l	10 no
Annual	MW7	Dichlorodifluoromethane	Annual	97.7	97.7	ug/l	yes
Annual	MW7	Chloromethane	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Ethyl Chloride/Chloroethane	Annual	<0.5	<0.5	ug/l	no
Annual	MW7	Vinyl Chloride	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Bromomethane	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Trichloromonofluoromethane	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Ethyl Ether/Diethyl Ether	Annual			ug/l	no
Annual	MW7	1,1 Dichloroethene	Annual	<0.1	<0.1	ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014	
Annual	MW7	Iodomethane/Methyl Iodide	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Carbon Disulphide	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Allyl Chloride	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Propanenitrile	Annual	<8.0	<8.0	ug/l	no
Annual	MW7	Trans-1,2 Dichloroethene	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	MtBE	Annual	<1.0	<1.0	ug/l	30 no
Annual	MW7	1,1-dichloroethane	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	2,2-dichloropropane	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	cis-1,2 Dichloroethene	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	2-Butanone	Annual			ug/l	no
Annual	MW7	Methyl Acrylate	Annual			ug/l	no
Annual	MW7	Bromochloromethane	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	Methacrylonitrile	Annual			ug/l	no
Annual	MW7	1,1,1-trichloroethane	Annual	<1.0	<1.0	ug/l	500 no
Annual	MW7	1-Chlorobutane	Annual			ug/l	no
Annual	MW7	Carbon Tetrachloride	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	1,1 Dichloropropene	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	1,2 dicloroethane	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	1,2-dichloropropane	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	Dibromomethane	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	Methyl Methacrylate	Annual	<1.0	<1.0	ug/l	no
Annual	MW7	1,3 Dichloropropene, cis	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	MIBK/4 Methyl 2 Pentanone	Annual			ug/l	no
Annual	MW7	1,3 Dichloropropene, trans	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Ethyl Methacrylate	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	1,1,2 Trichloroethane	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	1,3-dichloropropane	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	2-Hexanone	Annual	12.6	12.6	ug/l	yes
Annual	MW7	1,2-dibromoethane	Annual	0.1	0.1	ug/l	no
Annual	MW7	Chlorobenzene	Annual	22.4	22.4	ug/l	1 no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014	
Annual	MW7	1,1,1,2-tetrachloroethane	Annual	95.2	95.2	ug/l	yes
Annual	MW7	Ethylbenzene	Annual	<0.1	<0.1	ug/l	10 no
Annual	MW7	Xylene P&M	Annual	6.7	6.7	ug/l	10 no
Annual	MW7	Styrene	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Isopropylbenzene	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Bromobenzene	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	1,1,2,2-tetrachloroethane	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	1,2,3-trichloropropane	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Trans 1,4 Dichloro-2 Butene, trans	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	Propylbenzene	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	2-chlorotoluene	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	4-chlorotoluene	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	1,3,5-trimethylbenzene	Annual	8	8	ug/l	no
Annual	MW7	Tert Butyl Benzene	Annual	3.8	3.8	ug/l	yes
Annual	MW7	1,2,4-trimethylbenzene	Annual	93.4	93.4	ug/l	yes
Annual	MW7	sec-butylbenzene	Annual	3.9	3.9	ug/l	yes
Annual	MW7	p Isopropyltoluene	Annual			ug/l	no
Annual	MW7	N Butyl Benzene	Annual	3.3	3.3	ug/l	no
Annual	MW7	1,2-dibromo-3-chloropropane	Annual	<2.0	<2.0	ug/l	no
Annual	MW7	1,2,3-trichlorobenzene	Annual	<0.1	<0.1	ug/l	no
Annual	MW7	1,2,4 Trichlorobenzene	Annual	16	16	ng/l	
Annual	MW7	Terbutyn	annual	5.05	5.05	ug/l	
Annual	MW7	Benazolin	Annual	0.69	0.69	ug/l	
Annual	MW7	Mercoprop	annual	15.4	15.4	ug/l	
Annual	MW7	Dichlobenil	annual	50	50	ng/l	
Annual	MW7	OPP	annual	<0.02	<0.02	ug/l	SELECT

.+ where average indicates arithmetic mean

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

**Table 2: Downgradient Groundwater monitoring results**

Groundwater/Soil monitoring template										
					Lic No:	W0068-03	Year	2014		
Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV/s*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly	MW1	pH	Meter	Quarterly	7.5	7.31			9.5	no
Quarterly	MW1	Temp	Meter	Quarterly	6.7	6.4			25	no
Quarterly	MW1	Elec.Conductivity	Meter	Quarterly	2950	2782			1000	no
Quarterly	MW1	Chlorides	titration	Quarterly	14995	6960.02	mg/l		250	no
Quarterly	MW1	Ammoniacal Nitorgen	ISE	Quarterly	5.17	2.71	mg/l		Trigger Limit of 20mg/l	no
Quarterly	MW1	Iron		Quarterly	890	408.15	ug/l		0.2	no
Quarterly	MW1	TON		Quarterly	5.71	2.68	mg/l		No abnormal change	no
Quarterly	MW1	TOC	HACH	Quarterly	7.1	3.58	mg/l		Tigger limit 10-12mg/l	no
Annual	MW1	Cadmium		Annual	<0.5	<0.5	ug/l		0.005	no
Annual	MW1	Chromium (total)		Annual	2	2	ug/l		0.03	no
Annual	MW1	Copper		Annual	12	12	ug/l		0.03	no
Annual	MW1	Cyanide (Total)		Annual			ug/l		0.01	no
Annual	MW1	Lead		Annual	50	50	ug/l		0.01	no
Annual	MW1	Manganese		Annual	3793	3793	mg/l		50	no
Annual	MW1	Manganese		Annual	3215	3215	ug/l		0.05	no
Annual	MW1	Mercury		Annual	<0.05	<0.05	ug/l		0.001	no
Annual	MW1	Nickle		Annual			ug/l		0.02	no
Annual	MW1	Potassium		Annual	762	762	mg/l		5	no
Annual	MW1	Sulphate		Annual	942	942	mg/l		200	no
Annual	MW1	Total Alkalinity		Annual	452	452	mg/l			no
Annual	MW1	Total Phosphorus		Annual	0.22	0.22	mg/l			no
Annual	MW1	Selenium, total		Annual		<0.5	ug/l			
Annual	MW1	Thallium, total		Annual		<0.5	ug/l			
Annual	MW1	Tellurium, total		Annual		<0.5	ug/l			
Annual	MW1	Vanadium, total		Annual		5	ug/l			
Annual	MW1	Phenols		Annual	<0.1	<0.1	ug/l		0.5	no
Annual	MW1	Acenaphthylene		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Anthracene		Annual	<1.0	<1.0	ug/l		1000	no
Annual	MW1	Benzene		Annual	<1.0	<1.0	ug/l		1	no
Annual	MW1	Bromodichlorome thane		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Bromoform		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Chloroform		Annual	<1.0	<1.0	ug/l		12	no
Annual	MW1	Chrysene		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Dibromochlorome thane		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Fluoranthene		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Fluorene		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Naphthalene		Annual	<1.0	<1.0	ug/l		1	no
Annual	MW1	Dibromochlorome thane		Annual			ug/l			no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014		
Annual	MW1	Pentachlorophenol	Annual	<1.0	<1.0	ug/l	2	no
Annual	MW1	Phenanthrene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	Pyrene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	Tetrachloroethene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	Trichloroethene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	Hexachlorobenzene	Annual	<1.0	<1.0	ug/l	0.03	no
Annual	MW1	Hexachlorobutadiene	Annual	<1.0	<1.0	ug/l	0.1	no
Annual	MW1	2,4,6-Trichlorophenol	Annual	<0.1	<0.1	ug/l		no
Annual	MW1	2,4-Dichlorophenol	Annual	<0.1	<0.1	ug/l		no
Annual	MW1	2,4-Dimethylphenol	Annual	<0.1	<0.1	ug/l		no
Annual	MW1	2-Chlorophenol	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	1,2,4-trichlorobenzene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	1,2-dichlorobenzene	Annual	<1.0	<1.0	ug/l	10	no
Annual	MW1	1,3-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	1,4-dichlorobenzene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	2,4,5-Trichlorophenol	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	2,4-Dinitrotoluene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	2,6-Dinitrotoluene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	2-Chloronaphthalene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	2-Methylnaphthalene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	2-Methylphenol	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	2-Nitrophenol	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	4-Bromophenyl Phenyl Ether	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	4-Chloro-3-methylphenol	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	4-Chlorophenyl phenyl ether	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	4-Nitrophenol	Annual	<53.0	<53.0	ug/l		no
Annual	MW1	Acenaphthene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	Benzo(a)anthracene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	Benzo(a)pyrene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	Benzo(b)fluoranthene	Annual	<1.0	<1.0	ug/l		no
Annual	MW1	Benzo(g,h,i)perylene	Annual	<1.0	<1.0	ug/l		no



Groundwater/Soil monitoring template				Lic No:	W0068-03	Year	2014			
Annual	MW1	Benzyl Butyl Phthalate		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Bis(2-chloroethoxy)methane		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Bis(2-chloroethyl)ether		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Bis(2-chloroisopropyl)ether		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Bis(2-ethylhexyl)phthalate		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Dibenz(a,h)anthracene		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Dibenzofuran		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Diethylphthalate		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	di-n-Butylphthalate		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Di-n-octylphthalate		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Diphenylamine		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Hexachloroethane		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Indeno(1,2,3-c,d)pyrene		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Isophorone		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Nitrobenzene		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	n-Nitrosodi-n-propylamine		Annual			ug/l			no
Annual	MW1	Acetone		Annual			ug/l			no
Annual	MW1	Dichloromethane		Annual	8	8	ug/l		0.04	no
Annual	MW1	Tetrahydrofuran		Annual			ug/l			no
Annual	MW1	Toluene		Annual	<1.0	<1.0	ug/l		10	no
Annual	MW1	Xylene -o		Annual	<1.0	<1.0	ug/l		10	no
Annual	MW1	Dichlorodifluoromethane		Annual	100.4	100.4	ug/l			no
Annual	MW1	Chloromethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Ethyl Chloride/Chloroethane		Annual	<0.5	<0.5	ug/l			no
Annual	MW1	Vinyl Chloride		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Bromomethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Trichloromonofluoromethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Ethyl Ether/Diethyl Ether		Annual			ug/l			no
Annual	MW1	1,1 Dichloroethene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Iodomethane/Methyl iodide		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Carbon Disulphide		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Allyl Chloride		Annual	<1.0	<1.0	ug/l			no
Annual	MW1	Chlormethyl Cyanide/Chloroacetonitrile		Annual	<1.0	<1.0	ug/l			no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2014	
Annual	MW1	Propanenitrile	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	Trans-1,2 Dichloroethene	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	MtBE	Annual	<1.0	<1.0	ug/l	30 no
Annual	MW1	1,1- dichloroethane	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	2,2- dichloropropane	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	cis-1,2 Dichloroethene	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	2-Butanone	Annual			ug/l	no
Annual	MW1	Methyl Acrylate	Annual			ug/l	no
Annual	MW1	Bromochlorometh ane	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	Methacrylonitrile	Annual			ug/l	no
Annual	MW1	1,1,1- trichloroethane	Annual	<1.0	<1.0	ug/l	500 no
Annual	MW1	1-Chlorobutane	Annual			ug/l	no
Annual	MW1	Carbon Tetrachloride	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	1,1 Dichloropropene	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	1,2 dicloroethane	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	1,2- dichloropropane	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	Dibromomethane	Annual	<1.0	<1.0	ug/l	no
Annual	MW1	Methyl Methacrylate	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	1,3 Dichloropropene, c is	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	MIBK/4 Methyl 2 Pentanone	Annual			ug/l	no
Annual	MW1	1,3 Dichloropropene, t rans	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	Ethyl Methacrylate	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	1,1,2 Trichloroethane	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	1,3- dichloropropane	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	2-Hexanone	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	1,2- dibromoethane	Annual	0.1	0.1	ug/l	no
Annual	MW1	Chlorobenzene	Annual	0.1	0.1	ug/l	1 no
Annual	MW1	1,1,1,2- tetrachloroethane	Annual	0.1	0.1	ug/l	no
Annual	MW1	Ethylbenzene	Annual	<.1	<.1	ug/l	10 no
Annual	MW1	Xylene P&M	Annual	<0.1	<0.1	ug/l	10 no
Annual	MW1	Styrene	Annual	<0.1	<0.1	ug/l	no
Annual	MW1	Isopropylbenzene	Annual	<0.1	<0.1	ug/l	no

**Groundwater/Soil monitoring template** Lic No: W0068-03 Year 2014

Annual	MW1	Bromobenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	1,1,2,2-tetrachloroethane		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	1,2,3-trichloropropane		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Trans 1,4 Dichloro 2 Butene, tran		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Propylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	2-chlorotoluene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	4-chlorotoluene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	1,3,5-trimethylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Tert Butyl Benzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	1,2,4-trimethylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	sec-butylbenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	P Isopropyltoluene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	N Butyl Benzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	1,2-dibromo-3-chloropropane		Annual	<2.0	<2.0	ug/l			no
Annual	MW1	1,2,3-trichlorobenzene		Annual	<0.1	<0.1	ug/l			no
Annual	MW1	SVOC		Annual	<5.0	<5.0				
Annual	MW1	OPP		Annual	<0.020	<0.020	ug/l			
Annual	MW1	OCP		Annual	<10	<10	ng/l			
Annual	MW1	Triazine herbicides		Annual	<0.020	<0.020	ug/l			
Annual	MW1	VOC		Annual	<5.0	<5.0	ug/l			
							SELECT			SELECT

\*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](#)

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)

\*\*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)

[Groundwater](#) [Drinking water](#)  
[Surface water EQS](#) [regulations](#) [\(private supply\)](#) [Drinking water \(public supply\) standards](#) [Interim Guideline Values \(IGV\)](#)

**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

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

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;	Site Operational
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	Continued Local Authority Responsibility as covered under the Annual Budget of Costs.
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

<b>Environmental Management Programme/Continuous Improvement Programme template</b>	Lic No:	W0068-03	Year	2014
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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 2008. It includes sections on Use of manual, Site location and description, Types of waste accepted and procedures,
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes

**Environmental Management Programme (EMP) report**

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	Maintain number of complaints, annually, to less than 5	100	Improvement of gas extraction system and operational controls	Site Staff	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Improve annual recycling rate by 5%	90	Improvement of Civic Amenity Site layout and improved maintenance of existing infrastructure	Site Staff & Management	Installation of infrastructure and ease of use for users
Additional improvements	Improve Site Security	95	Liasing with Security Company and An Gardaí Síochana to deter would-be intruders	Site Staff & Management	Cleaner site and improved Health & Safety practice
Additional improvements	To control environmental nuisances at the facility	80	Reduction of litter & improved site practices	Site Staff & Management	Increased compliance with licence conditions
Leachate collection	Provision of pumping facilities to capture all run-off generated at site.	50	Sump constructed	Site Staff & Management	Increased compliance with licence conditions
Gas extraction system	Improved gas intake to flare unit and more efficient burning of gas	80	Improvement of site practice to ensure increased gas capture	Site Staff	Increased compliance with licence conditions

## Noise monitoring summary report

Lic No: W0068-03 Year

2014

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 <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
26/11/2014	30min	N1		49.7	41.1	46.3	94.8	No	SELECT	No facility emissions audible. N25 traffic to NW and N continuously audible and dominant. Otherwise bird calls and birdsongs were audible along with the occasional bang from an onsite JCB. <b>Elevated levels were caused by dogs barking close to the monitoring point.</b>	Yes
26/11/2014	30min	N2		46.5	44.3	48.6	59.8	No		No facility emissions audible. N25 traffic to NW and N continuously audible and dominant.	Yes
26/11/2014	30min	N3		47.6	44.6	49.5	58	No		Dominant continuous noise of the N25 was notable as well as normal country noise of birds and foliage rustling in the breeze. Some tractor engine attributed to the landfill	Yes
26/11/2014	30min	N4		54.7	51	56.4	81.6	Yes	No	being carried out at a site 300-400m away to the south of the facility. This meant heavy machinery was passing in <b>and out of a entrance close to the landfill</b> . The most notable noise attributed to the site was cars ajcb	Yes

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

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

SELECT

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

Site fully compliant with WL noise Regulations

## Resource Usage/Energy efficiency summary

Lic No:

W0068-03

Year

2014

## Additional information

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

	2011	
No		
SELECT		

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	94.214	93.65	-1%	
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (MWHrs)	0	0		
Electricity Consumption (MWHrs)	94.216	93.65	-1%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0.2	0.2	0.00%	
Light Fuel Oil (m3)	18	17	-5%	
Natural gas (m3)	0	0	0	
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

Water use	Water extracted		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Water Emissions		Water Consumption	
	Previous year m3/yr.	Current year m3/yr.			Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:	
Groundwater								
Surface water								
Public supply	204	202	-1%	N/A	202	N/A		
Recycled water								
Total	204	202	-1%		202			

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

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

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					



**Resource Usage/Energy efficiency summary** Lic No: W0068-03 Year 2014

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



<b>WASTE SUMMARY</b>	Lic No: W0068-03	Year: 2014
<b>SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES</b>	PRTR facility logon	dropdown list click to see options

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

POLLUTANT		RELEASES TO AIR			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	Measured through analysis of flue gas emissions monitoring and GasSim model	0.0	548258.0	0.0	548258.0
02	Carbon monoxide (CO)	M	ISO 12039:2001	Measured through analysis of flue gas emissions monitoring	0.0	8.38	0.0	8.38
03	Carbon dioxide (CO2)	C	ISO 12039:2001	Measured through analysis of flue gas emissions monitoring and GasSim model	0.0	2070914.0	0.0	2070914.0
07	Non-methane volatile organic compounds	M	EN 13649:2001	Measured through analysis of flue gas emissions monitoring	0.0	7.81	0.0	7.81
08	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005	Measured through analysis of flue gas emissions monitoring	0.0	379.34	0.0	379.34
11	Sulphur oxides (SOx/SO2)	M	EN 14791:2005	Measured through analysis of flue gas emissions monitoring	0.0	234.12	0.0	234.12

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

**SECTION B : REMAINING PRTR POLLUTANTS**

POLLUTANT		RELEASES TO AIR			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) 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 C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)**

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

**Additional Data Requested from Landfill operators**

\* On the part of the operators of the landfill gas (Methane) operators are requested to provide summary data on landfill gas (Methane)

Landfill:	Youghal Landfill				
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)	1144521.0	C	OTH Gas Sim model	N/A
	Methane flared	596263.0	M	OTH Measured through analysis of flare flue gas emissions monitoring	1380.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	548258.0	C	OTH	Gas Sim model and measured through analysis of flare flue gas emissions monitoring	N/A

**5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE**

Please enter all quantities on this sheet in Tonnes

WASTE SUMMARY												
				Lic No: W0068-03		Year: 2014						
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: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	13 02 05	Yes	1.44	mineral-based non-chlorinated engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Clonminam Industrial Estate,Portlaoise ,Co Laois,,Ireland	Enva Ltd,W0184-01,Clonminam Industrial Estate,Portlaoise, Co Laois,,Ireland	Clonminam Industrial Estate,Portlaoise, Co Laois,,Ireland
Within the Country	15 01 01	No	68.46	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,Ireland		
Within the Country	15 01 02	No	33.03	plastic packaging	R5	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,,Ireland		
Within the Country	15 01 04	No	8.14	metallic packaging	R4	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,,Ireland		
Within the Country	15 01 07	No	45.27	glass packaging	R5	M	Weighed	Offsite in Ireland	Mr. Binman,W0061-01	Luddenmore,Grange,Kilmalock,Co Limerick,Ireland		
Within the Country	16 06 01	Yes	1.62	lead batteries	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappinacur Industrial Estate,Tullamore ,Co Offlay,,Ireland	KMK Metals Ltd,W0133-03,Cappinacur Industrial Estate,Tullamore, Co Offlay,,Ireland	Cappinacur Industrial Estate,Tullamore, Co Offlay,,Ireland
Within the Country	19 07 03	No	6165.7	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Cork County Council,.	Carrigtohill Wastewater Treatment Plant,Tullagreen, Carrigtohill ,Co Cork,Ireland		
Within the Country	20 01 01	No	102.73	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,Ireland		
Within the Country	20 01 02	No	7.4	glass	R5	M	Weighed	Offsite in Ireland	MSM Recycling,W0079-01	41-42 Cookstown Industrial Estate,Tallaght,Dublin,D 24,Ireland		
Within the Country	20 01 11	No	7.76	textiles	R5	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WCP-DC-08-1225-01	Glen Abbey Business Park,Tallaght,Dublin,D24,Ireland		
Within the Country	20 01 27	Yes	6.96	paint, inks, adhesives and resins containing dangerous substances	R1	M	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Clonminam Industrial Estate,Portlaoise ,Co Laois,,Ireland	Enva Ltd,W0184-01,Clonminam Industrial Estate,Portlaoise, Co Laois,,Ireland	Clonminam Industrial Estate,Portlaoise, Co Laois,,Ireland

**WASTE SUMMARY** Lic No: W0068-03 Year: 2014

Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 152.76 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappinacur Industrial Estate,Tullamore,Co Offlay,,Ireland
Within the Country	20 01 38	No	wood other than that mentioned in 20 01 37 85.68	R13	M	Weighed	Offsite in Ireland	CTO Environmental Solutions Ltd,CK/09/0068/02	Rostellan,Midleton,Co Cork,,Ireland
Within the Country	20 01 40	No	77.84 metals	R4	M	Weighed	Offsite in Ireland	Pouladuff Dismantlers Ltd,CK(S) 478/07	Pouladuff Road,Togher,Cork,,Ireland
Within the Country	20 02 01	No	51.1 biodegradable waste	R3	M	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire,Cork,,Ireland

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

Additional Information

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

1

If yes please enter details in table 1 below

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

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

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

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code <a href="#">European Waste Catalogue EWC codes</a>	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -

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

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

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

6 Does your facility have relevant nuisance controls in place?

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

8 Do you maintain a sludge register on site?

<b>WASTE SUMMARY</b>	Lic No:	W0068-03	Year	2014
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**SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY**
**Table 2 Waste type and tonnage-landfill only**

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
Household & Commercial	128,000	0	200	Void Area is almost completely filled. Waste has ceased to be accepted but managemnt of Cork County Council have yet to decide when to fill the remaining void.
Industrial non-haz	27,000	0		
Construction&Demolition Waste	5,300	0		

**Table 3 General information-Landfill only**

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										m2	m2	m2
Cell 9	Dec-08	Temporary Cease Feb 2012	Yes	Public	Non Hazardous	2016	No	No	No	80000	40000	40000

<b>WASTE SUMMARY</b>	Lic No: W0068-03	Year: 2014
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**Table 4 Environmental monitoring-landfill only** [Landfill Manual-Monitoring Standards](#)

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

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

**Table 5 Capping-Landfill only**

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
0	17,000 square metres	81,800 square metres	0	0	1mm HDPE welded liner, geotextile drainage layer and protection barrier covered with 1m of suitable, screened soil.	

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

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

Yes
No

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

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
6165.73	323.7	912.5	2162.6	2216.6	No	Wastewater Treatment Plant with Mixing tank, Oxidation ditch & Settlement tanks	Values lower than previous years due to reduced quantity of leachate taken off-site and a reduction in parameter results in the leachate.

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

**Table 7 Landfill Gas-Landfill only**

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
596263 kg CH4/Annum	0	0	Yes	Gas captured figure is Annual Methane burn-off in kg/annum. Areas of elevated VOC's are identified by the surveys and are attended to by site staff. Well heads and flanked areas are repaired to improve gas system coverage at the site.









Comments on liner type
liner with

