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<u>guidance document link</u>	cells that contain underlined text c
Table heading *	table headings followed by a symb
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tain a dropdown menu click to select one option from the list

click to access relevant guidance documents for this section

do not have an associated footnote or instructions

in the top right corner contain a comment box with further instructions or clarification

Facility Information Summary	
AER Reporting Year	2014
Licence Register Number	W0023-1
Name of site	RAFFEEEN CAS AND LANDFILL (CLOSED)
Site Location	Cork County Council, Raffeen, Monkstown, CO. Cork
NACE Code	3821
Class/Classes of Activity	5(c), 5(d), 50.1
National Grid Reference (6E, 6 N)	1751E 0654N
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.	Raffeen CAS is a recycling facility that accepts household materials such as Domestic waste, food cans, beverage cans, glass bottles, rubble/DIY, paper, Cardboard, Newspapers and Magazines, Paint, Batteries, Waste Engine Oil, Fluorescent Tubes, Scrap Metal, Timber, Flat Glass, Green Waste, Textiles, Waste Cooking Oil & WEEE. The CAS has been open to the public for recycling and disposal since late 2005. The attached landfill was in operation from 1979 until -October 2001. No complaints were made against the facility during 2014. Overall the site has been compliant with its licence

Declaration:

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

Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	 
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AIR-summary template	Lic No: W0023-1	Year: 2014
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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	
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	
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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)

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	65716	m3	yes	MAB		
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT	50450	m3	yes	ISO 12039:2001		
Flare Stack	Carbon monoxide (CO)	Continuous	<50mg/Nm3	No 30min mean can exceed the ELV	15.22	mg/Nm3	yes	ISO 12039:2001		
Flare Stack	Nitrogen oxides (NOx/NO2)	Annual	<150mg/Nm3	No 30min mean can exceed the ELV	20.04	mg/Nm3	yes	EN 14792:2005		
Flare Stack	Sulphur oxides (SOx/SO2)	Annual	N/A	SELECT		mg/Nm3	yes	EN 14791:2005		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

AIR-summary template	Lic No:	W0023-1	Year	2014
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 3 and compare it to its relevant Emission Limit Value (ELV)	<input type="checkbox"/>	
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below	<input type="checkbox"/>	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	<input type="checkbox"/>	
7	Did your site experience any abatement system bypasses? If yes please detail them in table 4 below	<input type="checkbox"/>	

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
Flare Stack	PRTR	N/A	12 month	100 % of values < ELV	m3					
	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

AIR-summary template		Lic No: W0023-1	Year 2014									
Solvent use and management on site												
8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5			SELECT									
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	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Total VOC emissions as %of solvent</th> <th style="width: 25%;">Total Emission Limit Value (ELV) in licence or any revision thereof</th> <th style="width: 60%;">Compliance</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td style="text-align: center;">SELECT</td> </tr> <tr> <td> </td> <td> </td> <td style="text-align: center;">SELECT</td> </tr> </tbody> </table>	Total VOC emissions as %of solvent	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance			SELECT			SELECT
Total VOC emissions as %of solvent	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance										
		SELECT										
		SELECT										
Table A5: Solvent Mass Balance summary												
	(I) Inputs (kg)	(O) Outputs (kg)										
Solvent	(I) Inputs (kg)	Organic solvent emission in	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												

ary template-WATER/WASTEWATER(SEWER)

Lic No:

W0023-1

Year

2014

Additional Information

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 surface water analysis and visual inspections

No

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

No

Table W1 Surface 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		SELECT	Ammonia (as N)	10/02/14		N/A	0.038	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/02/14		N/A	0.071	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/02/14		N/A	0.027	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/03/14		N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/03/14		N/A	0.022	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/03/14		N/A	0.026	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/03/14		N/A	0.176	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	31/03/14		N/A	0.05	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/04/14		N/A	0.063	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/04/14		N/A	0.029	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/04/14		N/A	0.034	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	01/05/14		N/A	0.015	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	06/05/14		N/A	0.007	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/05/14		N/A	0.041	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/05/14		N/A	<0.005	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	29/05/14		N/A	0.007	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	05/06/14		N/A	0.009	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	11/06/14		N/A	0.012	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	16/06/14		N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	23/06/14		N/A	0.025	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/07/14		N/A	0.058	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	11/07/14		N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/07/14		N/A	0.009	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/07/14		N/A	0.048	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/07/14		N/A	0.059	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/08/14		N/A	0.029	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/08/14		N/A	0.062	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/08/14		N/A	0.042	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/08/14		N/A	0.081	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/09/14		N/A	0.034	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/09/14		N/A	0.051	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/09/14		N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	22/09/14		N/A	0.011	mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY	
SW2		SELECT	Ammonia (as N)			N/A		mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/02/14		N/A	23.9	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/02/14		N/A	25.9	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/02/14		N/A	44.9	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/03/14		N/A	37.0	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/03/14		N/A	35.5	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/03/14		N/A	37.0	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/03/14		N/A	35.3	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	31/03/14		N/A	32.5	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/04/14		N/A	28.5	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/04/14		N/A	33.2	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/04/14		N/A	42.4	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	01/05/14		N/A	31.5	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	06/05/14		N/A	18.6	mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)	15/05/14		N/A	29.3	mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)	21/05/14		N/A	30.6	mg/L	SELECT	WEEKLY	

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SW1		pH	Quarterly		N/A		units	SELECT	Mean for 2014
		Temperature	Quarterly		N/A		degrees C	SELECT	Mean for 2014
		Conductivity	Quarterly		N/A		µS/cm @20oC	SELECT	Mean for 2014
		Dissolved Oxygen	Quarterly		N/A		mg/L	SELECT	Mean for 2014
		Chlorides (as Cl)	Quarterly		N/A		mg/L	SELECT	Mean for 2014
		BOD	Quarterly		N/A		mg/L	SELECT	Mean for 2014
		COD	Quarterly		N/A		mg/L	SELECT	Mean for 2014
		Ammonia (as N)	Quarterly		N/A		mg/L	SELECT	Mean for 2014
		Suspended Solids	Quarterly		N/A		mg/L	SELECT	Mean for 2014
		Chromium and compounds (as Cr)	Annual		N/A	<0.5	ug/l	SELECT	Annual
		Copper and compounds (as Cu)	Annual		N/A	<1	ug/l	SELECT	Annual
		Cadmium and compounds (as Cd)	Annual		N/A	<0.5	ug/l	SELECT	Annual
		Iron	Annual		N/A	207	ug/l	SELECT	Annual
		Lead and compounds (as Pb)	Annual		N/A	6	ug/l	SELECT	Annual
		Magnesium	Annual		N/A	27	mg/l	SELECT	Annual
		Manganese (as Mn)	Annual		N/A	32	ug/l	SELECT	Annual
		Mercury and compounds (as Hg)	Annual		N/A	<0.10	ug/l	SELECT	Annual
		Potassium	Annual		N/A	9	mg/l	SELECT	Annual
		Sulphate	Annual		N/A	14.7	mg/l	SELECT	Annual
		Total Oxidised Nitrogen (TON)	Annual		N/A	5.73	mg/l	SELECT	Annual
	Zinc and compounds (as Zn)	Annual		N/A	<5	ug/l	SELECT	Annual	
	Total phosphorus	Annual		N/A	0.06	mg/l	SELECT	Annual	
	Sodium	Annual			13	mg/l		Annual	
	Calcium	Annual			208	mg/l		Annual	
SW2		pH	Quarterly				units		Mean for 2014
		Temperature	Quarterly				degrees C		Mean for 2014
		Conductivity	Quarterly				µS/cm @20oC		Mean for 2014
		Dissolved Oxygen	Quarterly				mg/L		Mean for 2014
		Chlorides (as Cl)	Quarterly				mg/L		Mean for 2014
		BOD	Quarterly				mg/L		Mean for 2014
		COD	Quarterly				mg/L		Mean for 2014
		Ammonia (as N)	Quarterly				mg/L		Mean for 2014
		Suspended Solids	Quarterly				mg/L		Mean for 2014
		Chromium and compounds (as Cr)	Annual			0.7	ug/l		Annual
		Copper and compounds (as Cu)	Annual			<1	ug/l		Annual
		Cadmium and compounds (as Cd)	Annual			<0.5	ug/l		Annual
		Iron	Annual			14250	ug/l		Annual
		Lead and compounds (as Pb)	Annual			2	ug/l		Annual
		Magnesium	Annual			75	mg/l		Annual
		Manganese (as Mn)	Annual			2559	ug/l		Annual
		Mercury and compounds (as Hg)	Annual			<0.10	ug/l		Annual
		Potassium	Annual				mg/l		Annual
		Sulphate	Annual			59	mg/l		Annual
		Total Oxidised Nitrogen (TON)	Annual			<0.1	mg/l		Annual
	Zinc and compounds (as Zn)	Annual			<5	ug/l		Annual	
	Total phosphorus	Annual			0.05	mg/l		Annual	
	Sodium	Annual			249	mg/l		Annual	
	Calcium	Annual			236	mg/l		Annual	
sw2a		pH	Quarterly				units		Mean for 2014
		Temperature	Quarterly				degrees C		Mean for 2014
		Conductivity	Quarterly				µS/cm @20oC		Mean for 2014
		Dissolved Oxygen	Quarterly				mg/L		Mean for 2014
		Chlorides (as Cl)	Quarterly				mg/L		Mean for 2014
		BOD	Quarterly				mg/L		Mean for 2014
		COD	Quarterly				mg/L		Mean for 2014
		Ammonia (as N)	Quarterly				mg/L		Mean for 2014
		Suspended Solids	Quarterly				mg/L		Mean for 2014
		Chromium and compounds (as Cr)	Annual			<0.5	ug/l		Annual
		Copper and compounds (as Cu)	Annual			<1	ug/l		Annual
		Cadmium and compounds (as Cd)	Annual			<0.5	ug/l		Annual
		Iron	Annual			101	ug/l		Annual
		Lead and compounds (as Pb)	Annual			2	ug/l		Annual

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			Magnesium	Annual		30	mg/l		Annual
			Manganese (as Mn)	Annual		33	ug/l		Annual
		Mercury and compounds (as Hg)		Annual		<0.10	ug/l		Annual
			Potassium	Annual		3	mg/l		Annual
			Sulphate	Annual		44.9	mg/l		Annual
			Total Oxidised Nitrogen (TON)	Annual		2.85	mg/l		Annual
		Zinc and compounds (as Zn)		Annual		<5	ug/l		Annual
		Total phosphorus		Annual		0.07	mg/l		Annual
			Sodium	Annual		125	mg/l		Annual
			Calcium	Annual		79	mg/l		Annual
			pH	Quarterly			units		Mean for 2014
sw2b			Temperature	Quarterly			degrees C		Mean for 2014
			Conductivity	Quarterly			µS/cm @20oC		Mean for 2014
			Dissolved Oxygen	Quarterly			mg/L		Mean for 2014
		Chlorides (as Cl)		Quarterly			mg/L		Mean for 2014
			BOD	Quarterly			mg/L		Mean for 2014
			COD	Quarterly			mg/L		Mean for 2014
			Ammonia (as N)	Quarterly			mg/L		Mean for 2014
			Suspended Solids	Quarterly			mg/L		Mean for 2014
		Chromium and compounds (as Cr)		Annual		1	ug/l		Annual
		Copper and compounds (as Cu)		Annual		<1	ug/l		Annual
		Cadmium and compounds (as Cd)		Annual		<0.5	ug/l		Annual
			Iron	Annual		8548	ug/l		Annual
		Lead and compounds (as Pb)		Annual		2	ug/l		Annual
			Magnesium	Annual		125	mg/l		Annual
			Manganese (as Mn)	Annual		1399	ug/l		Annual
		Mercury and compounds (as Hg)		Annual		<0.10	ug/l		Annual
			Potassium	Annual		4	mg/l		Annual
			Sulphate	Annual		234	mg/l		Annual
			Total Oxidised Nitrogen (TON)	Annual		<0.1	mg/l		Annual
		Zinc and compounds (as Zn)		Annual		<5	ug/l		Annual
		Total phosphorus		Annual		0.3	mg/l		Annual
			Sodium	Annual		1127	mg/l		Annual
			Calcium	Annual		321	mg/l		Annual
sw3			pH	Quarterly			units		Mean for 2014
			Temperature	Quarterly			degrees C		Mean for 2014
			Conductivity	Quarterly			µS/cm @20oC		Mean for 2014
			Dissolved Oxygen	Quarterly			mg/L		Mean for 2014
		Chlorides (as Cl)		Quarterly			mg/L		Mean for 2014
			BOD	Quarterly			mg/L		Mean for 2014
			COD	Quarterly			mg/L		Mean for 2014
			Ammonia (as N)	Quarterly			mg/L		Mean for 2014
			Suspended Solids	Quarterly			mg/L		Mean for 2014
		Chromium and compounds (as Cr)		Annual		<0.5	ug/l		Annual
		Copper and compounds (as Cu)		Annual		<1	ug/l		Annual
		Cadmium and compounds (as Cd)		Annual		<0.5	ug/l		Annual
			Iron	Annual		4840	ug/l		Annual
		Lead and compounds (as Pb)		Annual		2	ug/l		Annual
			Magnesium	Annual		48	mg/l		Annual
			Manganese (as Mn)	Annual		1236	ug/l		Annual
		Mercury and compounds (as Hg)		Annual		<0.10	ug/l		Annual
			Potassium	Annual			mg/l		Annual
			Sulphate	Annual		65.7	mg/l		Annual
			Total Oxidised Nitrogen (TON)	Annual		0.193	mg/l		Annual
		Zinc and compounds (as Zn)		Annual		<5	ug/l		Annual
		Total phosphorus		Annual		0.1	mg/l		Annual
			Sodium	Annual		251	mg/l		Annual
			Calcium	Annual		128	mg/l		Annual
sw4			pH	Quarterly			units		Mean for 2014
			Temperature	Quarterly			degrees C		Mean for 2014
			Conductivity	Quarterly			µS/cm @20oC		Mean for 2014
			Dissolved Oxygen	Quarterly			mg/L		Mean for 2014
		Chlorides (as Cl)		Quarterly			mg/L		Mean for 2014

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		BOD	Quarterly				mg/L		Mean for 2014
		COD	Quarterly				mg/L		Mean for 2014
		Ammonia (as N)	Quarterly				mg/L		Mean for 2014
		Suspended Solids	Quarterly				mg/L		Mean for 2014
	Chromium and compounds (as Cr)		Annual			<0.5	ug/l		Annual
	Copper and compounds (as Cu)		Annual			<1	ug/l		Annual
	Cadmium and compounds (as Cd)		Annual			<0.5	ug/l		Annual
	Iron		Annual			149	ug/l		Annual
	Lead and compounds (as Pb)		Annual			5	ug/l		Annual
	Magnesium		Annual			12	mg/l		Annual
	Manganese (as Mn)		Annual			11	ug/l		Annual
	Mercury and compounds (as Hg)		Annual			<0.10	ug/l		Annual
	Potassium		Annual			2	mg/l		Annual
	Sulphate		Annual			14.2	mg/l		Annual
	Total Oxidised Nitrogen (TON)		Annual			4.87	mg/l		Annual
	Zinc and compounds (as Zn)		Annual			<5	ug/l		Annual
	Total phosphorus		Annual			0.05	mg/l		Annual
	Sodium		Annual			13	mg/l		Annual
	Calcium		Annual			75	mg/l		Annual
sw5		pH	Quarterly				units		Mean for 2014
	Temperature		Quarterly				degrees C		Mean for 2014
	Conductivity		Quarterly				µS/cm @20oC		Mean for 2014
	Dissolved Oxygen		Quarterly				mg/L		Mean for 2014
	Chlorides (as Cl)		Quarterly				mg/L		Mean for 2014
	BOD		Quarterly				mg/L		Mean for 2014
	COD		Quarterly				mg/L		Mean for 2014
	Ammonia (as N)		Quarterly				mg/L		Mean for 2014
	Suspended Solids		Quarterly				mg/L		Mean for 2014
	Chromium and compounds (as Cr)		Annual			0.8	ug/l		Annual
	Copper and compounds (as Cu)		Annual			<1	ug/l		Annual
	Cadmium and compounds (as Cd)		Annual			<0.5	ug/l		Annual
	Iron		Annual			<10	ug/l		Annual
	Lead and compounds (as Pb)		Annual			3	ug/l		Annual
	Magnesium		Annual			4	mg/l		Annual
	Manganese (as Mn)		Annual			<5	ug/l		Annual
	Mercury and compounds (as Hg)		Annual			<0.10	ug/l		Annual
	Potassium		Annual				mg/l		Annual
	Sulphate		Annual			16.6	mg/l		Annual
	Total Oxidised Nitrogen (TON)		Annual			0.416	mg/l		Annual
	Zinc and compounds (as Zn)		Annual			<5	ug/l		Annual
	Total phosphorus		Annual			0.05	mg/l		Annual
	Sodium		Annual			13	mg/l		Annual
	Calcium		Annual			57	mg/l		Annual

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

- 1 Please provide integrity testing frequency period
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
- 2 How many bunds are on site?
- 3 How many of these bunds have been tested within the required test schedule?
- 4 How many mobile bunds are on site?
- 5 Are the mobile bunds included in the bund test schedule?
- 6 How many of these mobile bunds have been tested within the required test schedule?
- 7 How many sumps on site are included in the integrity test schedule?
- 8 How many of these sumps are integrity tested within the test schedule?

No	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

- Please list any sump integrity failures in table B1**
- 9 Do all sumps and chambers have high level liquid alarms?
 - 10 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

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

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

* Capacity required should comply with 20% or 110% containment rule [admitted 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?

- 14 Are channels/transfer systems to remote containment systems tested? [bunding and storage guidelines](#)
- 15 Are channels/transfer systems compliant in both integrity and available volume?

Commentary	
SELECT	
SELECT	
SELECT	

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**

- 1 Please provide integrity testing frequency period

SELECT	
SELECT	

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:	W0023-1	Year	2014				
				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	Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12			no							
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							
1: Upgradient Groundwater monitoring results											
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	DWS	Upward trend in pollutant concentration over last 5 years of monitoring data	
Mean of 2014	GW2	pH	meter	quarterly	6.9	6.4	units	9.5	DWS	data not available	
Mean of 2014	GW2	Temp	meter	quarterly	12.2	12.2	C		DWS	data not available	
Mean of 2014	GW2	Elec.Conductivity	meter	quarterly	304	278	mS/cm	1000	DWS	data not available	
Mean of 2014	GW2	Chlorides	titration	quarterly	40.9	30.45	mg/l	250	DWS	data not available	
Mean of 2014	GW2	Ammoniacal Nitorgen	meter	quarterly	0.151	0.005	mg/l	0.02NH3	DWS	data not available	
Mean of 2014	GW2	TON		quarterly	4.84	2.86	ug/l		DWS	data not available	
Mean of 2014	GW2	SODIUM		Annual	19	17.5	mg/l		DWS	data not available	
Mean of 2014	GW2	POTASSIUM		Annual	10	4.75	mg/l	5 mg/l	DWS	data not available	
Annual	GW2	Cadmium		Annual	<0.5		ug/l	0.005mg/l	DWS	data not available	
09/03/2014	GW2	Chromium (total)		Annual	<0.5		ug/l	0.03mg/l	DWS	data not available	
	GW2	Copper		Annual	<1		ug/l	0.03mg/l	DWS	data not available	
	GW2	Cyanide (Total)		Annual	<0.009		ug/l	0.01mg/l	DWS	data not available	
	GW2	Lead		Annual	2		ug/l	0.01mg/l	DWS	data not available	
	GW2	Magnesium		Annual	32		mg/l		DWS	data not available	
	GW2	Manganese		Annual	<5		ug/l	0.3mg/l	DWS	data not available	
	GW2	Mercury		Annual	<0.10		ug/l	0.001mg/l	DWS	data not available	
	GW2	Potassium		Annual	3		mg/l	5 mg//l	DWS	data not available	
	GW2	Sulphate		Annual	17.1		mg/l		DWS	data not available	
	GW2	Total Alkalinity		Annual			mg/l		DWS	data not available	
	GW2	Total Phosphorus		Annual	0.154		mg/l		DWS	data not available	
	GW2	Selenium total		Annual	1		ug/l		DWS	data not available	
	GW2	Thallium total		Annual	<0.5		ug/l		DWS	data not available	
	GW2	Tellurium total		Annual	<0.5		ug/l		DWS	data not available	
	GW2	Vanadium		Annual	<0.5		ug/l		DWS	data not available	

Groundwater/Soil monitoring template			Lic No:	W0023-1	Year	2014		
	GW2	Phenols	Annual	<5.00	ug/l	0.5 ug/l	DWS	data not available
	GW2	Acenaphthylene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Anthracene	Annual	<0.1	ug/l	0.1 ug/l	DWS	data not available
	GW2	Benzene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Bromodichloromethane	Annual	<0.1	ug/l		DWS	data not available
	GW2	Bromoform	Annual	<0.1	ug/l		DWS	data not available
	GW2	Chloroform	Annual	<0.1	ug/l		DWS	data not available
	GW2	Chrysene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Dibromochloromethane	Annual	<0.1	ug/l		DWS	data not available
	GW2	Fluoranthene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Fluorene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Naphthalene	Annual	<0.2	ug/l	1.0 ug/l	DWS	data not available
	GW2	Dibromochloromethane	Annual	<0.1	ug/l		DWS	data not available
	GW2	Pentachlorophenol	Annual	<0.1	ug/l	9.0 ug/l	DWS	data not available
	GW2	Phenanthrene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Pyrene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Tetrachloroethene	Annual	<0.1	ug/l	70 ug/l	DWS	data not available
	GW2	Trichloroethene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Hexachlorobenzene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Hexachlorobutadiene	Annual	<0.1	ug/l		DWS	data not available
	GW2	2,4,6-Trichlorophenol	Annual	<0.1	ug/l		DWS	data not available
	GW2	2,4-Dichlorophenol	Annual	<0.1	ug/l		DWS	data not available
	GW2	2,4-Dimethylphenol	Annual	<0.1	ug/l		DWS	data not available
	GW2	2-Chlorophenol	Annual	<0.1	ug/l		DWS	data not available
	GW2	1,2,4-trichlorobenzene	Annual	<0.1	ug/l		DWS	data not available
	GW2	1,2-dichlorobenzene	Annual	<0.1	ug/l		DWS	data not available
	GW2	1,3-dichlorobenzene	Annual	<0.1	ug/l		DWS	data not available
	GW2	1,4-dichlorobenzene	Annual	<0.1	ug/l		DWS	data not available
	GW2	2,4,5-Trichlorophenol	Annual	<0.1	ug/l		DWS	data not available
	GW2	2,4-Dinitrotoluene	Annual	<0.1	ug/l		DWS	data not available
	GW2	2,6-Dinitrotoluene	Annual	<0.1	ug/l		DWS	data not available
	GW2	2-Chloronaphthalene	Annual	<0.1	ug/l		DWS	data not available
	GW2	2-Methylnaphthalene	Annual	<0.1	ug/l		DWS	data not available
	GW2	2-Methylphenol	Annual	<0.1	ug/l		DWS	data not available
	GW2	2-Nitrophenol	Annual	<0.1	ug/l		DWS	data not available
	GW2	4-Bromophenyl Phenyl Ether	Annual	<0.1	ug/l		DWS	data not available
	GW2	4-Chloro-3-methylphenol	Annual	<0.1	ug/l		DWS	data not available
	GW2	4-Chlorophenyl phenyl ether	Annual	<0.1	ug/l		DWS	data not available
	GW2	4-Nitrophenol	Annual	<5.0	ug/l		DWS	data not available
	GW2	Acenaphthene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Benzo(a)anthracene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Benzo(a)pyrene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Benzo(b)fluoranthene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Benzo(g,h,i)perylene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Benzyl Butyl Phthalate	Annual	<0.1	ug/l		DWS	data not available
	GW2	Bis(2-chloroethoxy)methane	Annual	<0.1	ug/l		DWS	data not available
	GW2	Bis(2-chloroethyl)ether	Annual	<0.1	ug/l		DWS	data not available
	GW2	Bis(2-chloroisopropyl)ether	Annual	<0.1	ug/l		DWS	data not available
	GW2	Bis(2-ethylhexyl)phthalate	Annual	<0.1	ug/l		DWS	data not available
	GW2	Dibenz(a,h)anthracene	Annual	<0.1	ug/l		DWS	data not available
	GW2	Dibenzofuran	Annual	<0.1	ug/l		DWS	data not available
	GW2	Diethylphthalate	Annual	<0.1	ug/l		DWS	data not available
	GW2	di-n-Butylphthalate	Annual	<0.1	ug/l		DWS	data not available

Groundwater/Soil monitoring template			Lic No:	W0023-1	Year	2014	
	GW2	Di-n-octylphthalate	Annual	<0.1	ug/l		DWS data not available
	GW2	Diphenylamine	Annual	<0.1	ug/l		DWS data not available
	GW2	Hexachloroethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Indeno(1,2,3-c,d)pyrene	Annual	<0.1	ug/l		DWS data not available
	GW2	Isophorone	Annual	<0.1	ug/l		DWS data not available
	GW2	Nitrobenzene	Annual	<0.1	ug/l	10 ug/l	DWS data not available
	GW2	n-Nitrosodi-n-propylamine	Annual	<0.1	ug/l		DWS data not available
	GW2	Acetone	Annual	<0.1	ug/l		DWS data not available
	GW2	Dichloromethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Tetrahydrofuran	Annual	<0.1	ug/l		DWS data not available
	GW2	Toluene	Annual	<0.1	ug/l	700 ug/l	DWS data not available
	GW2	Xylene -o	Annual	<0.1	ug/l		DWS data not available
	GW2	Dichlorodifluoromethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Chloromethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Ethyl Chloride/Chloroethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Vinyl Chloride	Annual	<0.5	ug/l		DWS data not available
	GW2	Bromomethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Trichloromonofluoromethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Ethyl Ether/Diethyl Ether	Annual	<0.1	ug/l		DWS data not available
	GW2	1,1-Dichloroethene	Annual	<0.1	ug/l		DWS data not available
	GW2	Iodomethane/Methyl iodide	Annual	<0.1	ug/l		DWS data not available
	GW2	Carbon Disulphide	Annual	<0.1	ug/l		DWS data not available
	GW2	Allyl Chloride	Annual	<0.1	ug/l		DWS data not available
	GW2	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<0.1	ug/l		DWS data not available
	GW2	Propanenitrile	Annual	<0.1	ug/l		DWS data not available
	GW2	Trans-1,2 Dichloroethene	Annual	<0.1	ug/l		DWS data not available
	GW2	MtBE	Annual	<0.1	ug/l	30 ug/l	DWS data not available
	GW2	1,1-dichloroethane	Annual	<0.1	ug/l		DWS data not available
	GW2	2,2-dichloropropane	Annual	<0.1	ug/l		DWS data not available
	GW2	cis-1,2 Dichloroethene	Annual	<0.1	ug/l		DWS data not available
	GW2	2-Butanone	Annual	<0.1	ug/l		DWS data not available
	GW2	Methyl Acrylate	Annual	<0.1	ug/l		DWS data not available
	GW2	Bromochloromethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Methacrylonitrile	Annual	<0.1	ug/l		DWS data not available
	GW2	1,1,1-trichloroethane	Annual	<0.1	ug/l		DWS data not available
	GW2	1-Chlorobutane	Annual	<0.1	ug/l		DWS data not available
	GW2	Carbon Tetrachloride	Annual	<0.1	ug/l		DWS data not available
	GW2	1,1-Dichloropropene	Annual	<0.1	ug/l		DWS data not available
	GW2	1,2-dichloroethane	Annual	<0.1	ug/l		DWS data not available
	GW2	1,2-dichloropropane	Annual	<0.1	ug/l		DWS data not available
	GW2	Dibromomethane	Annual	<0.1	ug/l		DWS data not available
	GW2	Methyl Methacrylate	Annual	<0.1	ug/l		DWS data not available
	GW2	1,3-Dichloropropene,cis	Annual	<0.1	ug/l		DWS data not available
	GW2	MIBK/4 Methyl 2 Pentanone	Annual	<0.1	ug/l		DWS data not available
	GW2	1,3-Dichloropropene,trans	Annual	<0.1	ug/l		DWS data not available
	GW2	Ethyl Methacrylate	Annual	<0.1	ug/l		DWS data not available
	GW2	1,1,2-Trichloroethane	Annual	<0.1	ug/l		DWS data not available
	GW2	1,3-dichloropropane	Annual	<0.1	ug/l		DWS data not available
	GW2	2-Hexanone	Annual	<0.1	ug/l		DWS data not available
	GW2	1,2-dibromoethane	Annual	<0.1	ug/l		DWS data not available

Groundwater/Soil monitoring template				Lic No:	W0023-1	Year	2014				
	GW2	Chlorobenzene	Annual	<0.1	ug/l	100 ug/l	DWS	data not available			
	GW2	1,1,1,2-tetrachloroethane	Annual	<0.1	ug/l		DWS	data not available			
	GW2	Ethylbenzene	Annual	<0.1	ug/l	300 ug/l	DWS	data not available			
	GW2	Xylene P&M	Annual	<0.1	ug/l		DWS	data not available			
	GW2	Styrene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	Isopropylbenzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	Bromobenzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	1,1,2,2-tetrachloroethane	Annual	<0.1	ug/l		DWS	data not available			
	GW2	1,2,3-trichloropropane	Annual	<0.1	ug/l		DWS	data not available			
	GW2	Trans 1,4 Dichloro 2 Butene, tran	Annual	<0.1	ug/l		DWS	data not available			
	GW2	Propylbenzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	2-chlorotoluene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	4-chlorotoluene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	1,3,5-trimethylbenzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	Tert Butyl Benzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	1,2,4-trimethylbenzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	sec-butylbenzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	P Isopropyltoluene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	N Butyl Benzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	1,2-dibromo-3-chloropropane	Annual	<0.1	ug/l		DWS	data not available			
	GW2	1,2,3-trichlorobenzene	Annual	<0.1	ug/l		DWS	data not available			
	GW2	VOC	Annual	<1.0	ug/l		DWS	data not available			
	GW2	SVOC	Annual	<1	ug/l		DWS	data not available			
	GW2	Acid Herbicides	Annual	<0.005	ug/l		DWS	data not available			
	GW2	OPP	Annual	<0.005	ug/l		DWS	data not available			
	GW2	OCP	Annual	<30	ng/l		DWS	data not available			
	GW2	Triazine Herbicides	Annual	<0.020	ug/l	0.1 ug/l	DWS	data not available			
	GW2	Arsenic	Annual	<0.5	ug/l	0.01 mg/l	DWS	data not available			
							DWS				
* where average indicates arithmetic mean											
um measured concentration from all monitoring results produced during the reporting year											
Downgradient Groundwater monitoring results											
	Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	DWS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
	Mean of 2014	GW5	pH		quarterly	6.5	6.2	units	9.5	DWS	data not available
	Mean of 2014	GW5	Temp		quarterly	13.2	12	C		DWS	data not available
	Mean of 2014	GW5	Elec.Conductivity		quarterly	530	465	mS/cm	1000	DWS	data not available
	Mean of 2014	GW5	Chlorides		quarterly	42.5	34.42	mg/l	250	DWS	data not available
	Mean of 2014	GW5	Ammoniacal Nitrogen		quarterly	4.27	2.63	mg/l	0.02NH3	DWS	data not available
	Mean of 2014	GW5	ton		quarterly	11.7	5.24	ug/l	1.0mg/l	DWS	data not available
	Mean of 2014	GW5	sodium		quarterly	37	35.75	mg/l		DWS	data not available
	Mean of 2014	GW5	potassium		quarterly	36	14.75	mg/l		DWS	data not available
	Annual	GW5	Cadmium		Annual	<0.5	ug/l	0.005mg/l	DWS	data not available	
	22/9/2014	GW5	Chromium (total)		Annual	<0.5	ug/l	0.03mg/l	DWS	data not available	
		GW5	Copper		Annual	2	ug/l	0.03mg/l	DWS	data not available	
		GW5	Cyanide (Total)		Annual		0.027	ug/l	0.01mg/l	DWS	data not available

Groundwater/Soil monitoring template				Lic No:	W0023-1	Year	2014		
	GW5	Lead	Annual		5	ug/l	0.01mg/l	DWS	data not available
	GW5	Manganese	Annual		80	mg/l		DWS	data not available
	GW5	Manganese	Annual		3716	ug/l	0.3mg/l	DWS	data not available
	GW5	Mercury	Annual		<0.10	ug/l	0.001mg/l	DWS	data not available
	GW5	Potassium	Annual		36	mg/l	5 mg/l	DWS	data not available
	GW5	Sulphate	Annual		28.8	mg/l		DWS	data not available
	GW5	Total Alkalinity	Annual			mg/l		DWS	data not available
	GW5	Total Phosphorus	Annual		0.215	mg/l		DWS	data not available
	GW5	Selenium total	Annual		<0.5	ug/l		DWS	data not available
	GW5	Thallium total	Annual		<0.5	ug/l		DWS	data not available
	GW5	Tellurium total	Annual		<0.5	ug/l		DWS	data not available
	GW5	Vanadium, total	Annual		<0.5	ug/l		DWS	data not available
	GW5	Phenols	Annual		<5.00	ug/l	0.5 ug/l	DWS	data not available
	GW5	Acenaphthylene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Anthracene	Annual		<0.2	ug/l	0.1 ug/l	DWS	data not available
	GW5	Benzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	Bromodichloromethane	Annual		<0.2	ug/l		DWS	data not available
	GW5	Bromoform	Annual		<0.1	ug/l		DWS	data not available
	GW5	Chloroform	Annual		<0.1	ug/l		DWS	data not available
	GW5	Chrysene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Dibromochloromethane	Annual		<0.1	ug/l		DWS	data not available
	GW5	Fluoranthene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Fluorene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Naphthalene	Annual		<0.4	ug/l	1.0 ug/l	DWS	data not available
	GW5	Dibromochloromethane	Annual		<0.1	ug/l		DWS	data not available
	GW5	Pentachlorophenol	Annual		<0.2	ug/l	9.0 ug/l	DWS	data not available
	GW5	Phenanthrene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Pyrene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Tetrachloroethene	Annual		<0.2	ug/l	70 ug/l	DWS	data not available
	GW5	Trichloroethene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Hexachlorobenzene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Hexachlorobutadiene	Annual		<0.2	ug/l		DWS	data not available
	GW5	2,4,6-Trichlorophenol	Annual		<0.2	ug/l		DWS	data not available
	GW5	2,4-Dichlorophenol	Annual		<0.2	ug/l		DWS	data not available
	GW5	2,4-Dimethylphenol	Annual		<0.2	ug/l		DWS	data not available
	GW5	2-Chlorophenol	Annual		<0.2	ug/l		DWS	data not available
	GW5	1,2,4-trichlorobenzene	Annual		<0.2	ug/l		DWS	data not available
	GW5	1,2-dichlorobenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,3-dichlorobenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,4-dichlorobenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	2,4,5-Trichlorophenol	Annual		<0.2	ug/l		DWS	data not available
	GW5	2,4-Dinitrotoluene	Annual		<0.2	ug/l		DWS	data not available
	GW5	2,6-Dinitrotoluene	Annual		<0.2	ug/l		DWS	data not available
	GW5	2-Chloronaphthalene	Annual		<0.2	ug/l		DWS	data not available
	GW5	2-Methylnaphthalene	Annual		<0.2	ug/l		DWS	data not available
	GW5	2-Methylphenol	Annual		<0.2	ug/l		DWS	data not available
	GW5	2-Nitrophenol	Annual		<0.2	ug/l		DWS	data not available
	GW5	4-Bromophenyl Phenyl Ether	Annual		<0.2	ug/l		DWS	data not available
	GW5	4-Chloro-3-methylphenol	Annual		<0.2	ug/l		DWS	data not available
	GW5	4-Chlorophenyl phenyl ether	Annual		<0.2	ug/l		DWS	data not available
	GW5	4-Nitrophenol	Annual		<10.0	ug/l		DWS	data not available
	GW5	Acenaphthene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Benzo(a)anthracene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Benzo(a)pyrene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Benzo(b)fluoranthene	Annual		<0.2	ug/l		DWS	data not available
	GW5	Benzo(g,h,i)perylene	Annual		<0.2	ug/l		DWS	data not available

Groundwater/Soil monitoring template				Lic No:	W0023-1	Year	2014		
	GW5	Benzyl Butyl Phthalate	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Bis(2-chloroethoxy)methane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Bis(2-chloroethyl)ether	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Bis(2-chloroisopropyl)ether	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Bis(2-ethylhexyl)phthalate	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Dibenz(a,h)anthracene	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Dibenzofuran	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Diethylphthalate	Annual		<0.2	ug/l	DWS	data not available	
	GW5	di-n-Butylphthalate	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Di-n-octylphthalate	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Diphenylamine	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Hexachloroethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Indeno(1,2,3-c,d)pyrene	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Isophorone	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Nitrobenzene	Annual		<0.2	ug/l	10 ug/l	DWS	data not available
	GW5	n-Nitrosodi-n-propylamine	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Acetone	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Dichloromethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Tetrahydrofuran	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Toluene	Annual		<0.1	ug/l	700 ug/l	DWS	data not available
	GW5	Xylene -o	Annual		<0.1	ug/l	DWS	data not available	
	GW5	Dichlorodifluoromethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Chloromethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Ethyl Chloride/Chloroethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Vinyl Chloride	Annual		<0.5	ug/l	DWS	data not available	
	GW5	Bromomethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Trichloromonofluoromethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Ethyl Ether/Diethyl Ether	Annual		<0.2	ug/l	DWS	data not available	
	GW5	1,1-Dichloroethene	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Iodomethane/Methyl iodide	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Carbon Disulphide	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Allyl Chloride	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Chlormethyl Cyanide/Chloroacetonitrile	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Propanenitrile	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Trans-1,2 Dichloroethene	Annual		<0.2	ug/l	DWS	data not available	
	GW5	MtBE	Annual		<0.2	ug/l	DWS	data not available	
	GW5	1,1-dichloroethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	2,2-dichloropropane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	cis-1,2 Dichloroethene	Annual		<0.2	ug/l	DWS	data not available	
	GW5	2-Butanone	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Methyl Acrylate	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Bromochloromethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Methacrylonitrile	Annual		<0.2	ug/l	DWS	data not available	
	GW5	1,1,1-trichloroethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	1-Chlorobutane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	Carbon Tetrachloride	Annual		<0.2	ug/l	DWS	data not available	
	GW5	1,1 Dichloropropene	Annual		<0.2	ug/l	DWS	data not available	
	GW5	1,2 dichloroethane	Annual		<0.2	ug/l	DWS	data not available	
	GW5	1,2-dichloropropane	Annual		<0.2	ug/l	DWS	data not available	

Groundwater/Soil monitoring template				Lic No:	W0023-1	Year	2014		
	GW5	Dibromomethane	Annual		<0.2	ug/l		DWS	data not available
	GW5	Methyl Methacrylate	Annual		<0.2	ug/l		DWS	data not available
	GW5	13 Dichloropropene,cis	Annual		<0.2	ug/l		DWS	data not available
	GW5	MIBK/4 Methyl 2 Pentanone	Annual		<0.2	ug/l		DWS	data not available
	GW5	13 Dichloropropene,trans	Annual		<0.1	ug/l		DWS	data not available
	GW5	Ethyl Methacrylate	Annual		<0.1	ug/l		DWS	data not available
	GW5	112 Trichloroethane	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,3-dichloropropane	Annual		<0.1	ug/l		DWS	data not available
	GW5	2-Hexanone	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,2-dibromoethane	Annual		<0.1	ug/l		DWS	data not available
	GW5	Chlorobenzene	Annual		<0.1	ug/l	100 ug/l	DWS	data not available
	GW5	1,1,1,2-tetrachloroethane	Annual		<0.1	ug/l		DWS	data not available
	GW5	Ethylbenzene	Annual		<0.1	ug/l	300 ug/l	DWS	data not available
	GW5	Xylene P&M	Annual		<0.1	ug/l		DWS	data not available
	GW5	Styrene	Annual		<0.1	ug/l		DWS	data not available
	GW5	Isopropylbenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	Bromobenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,1,2,2-tetrachloroethane	Annual		<0.2	ug/l		DWS	data not available
	GW5	1,2,3-trichloropropane	Annual		<0.2	ug/l		DWS	data not available
	GW5	Trans 14 Dichloro 2 Butene, tran	Annual		<0.2	ug/l		DWS	data not available
	GW5	Propylbenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	2-chlorotoluene	Annual		<0.1	ug/l		DWS	data not available
	GW5	4-chlorotoluene	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,3,5-trimethylbenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	Tert Butyl Benzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,2,4-trimethylbenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	sec-butylbenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	P Isopropyltoluene	Annual		<0.1	ug/l		DWS	data not available
	GW5	N Butyl Benzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,2-dibromo-3- chloropropane	Annual		<0.1	ug/l		DWS	data not available
	GW5	1,2,3-trichlorobenzene	Annual		<0.1	ug/l		DWS	data not available
	GW5	VOC	Annual		<2.0	ug/l		DWS	data not available
	GW5	SVOC	Annual		<10	ug/l		DWS	data not available
	GW5	Acid Herbicides	Annual			ug/l		DWS	data not available
	GW5	OPP	Annual		<0.020	ug/l		DWS	data not available
	GW5	OCP	Annual		<30	ng/l		DWS	data not available
	GW5	Simazine	Annual		0.021	ug/l	2.0 ug/l	DWS	data not available
	GW5	Arsenic	Annual		24	ug/l	0.01 mg/l	DWS	data not available
Mean of 2014	GW8	pH	quarterly	6.4	6	units	9.5	DWS	data not available
mean of 2014	GW8	Temp	quarterly	13	11.8	C		DWS	data not available
Mean of 2014	GW8	Elec.Conductivity	quarterly	467	445	mS/cm	1000	DWS	data not available
mean of 2014	GW8	Chlorides	quarterly	41.9	37.1	mg/l	250	DWS	data not available
Mean of 2014	GW8	Ammoniacal Nitrogen	quarterly	2.77	1.75	mg/l	0.02NH3	DWS	data not available
mean of 2014	GW8	TON	quarterly	13	14.32	ug/l	1.0mg/l	DWS	data not available
Mean of 2014	GW8	Sodium	quarterly	31	30.25	mg/l		DWS	data not available
mean of 2014	GW8	Potassium	quarterly	12	8.75	mg/l		DWS	data not available
Annual	GW8	Cadmium	Annual		<0.5	ug/l	0.005mg/l	DWS	data not available

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09/03/2014	GW8	Chromium (total)	Annual			<0.5	ug/l	0.03mg/l	DWS	data not available	
	GW8	Copper	Annual			<1	ug/l	0.03mg/l	DWS	data not available	
	GW8	Cyanide (Total)	Annual			<0.009	ug/l	0.01mg/l	DWS	data not available	
	GW8	Lead	Annual			5	ug/l	0.01mg/l	DWS	data not available	
	GW8	Manganese	Annual			10	mg/l		DWS	data not available	
	GW8	Manganese	Annual			138	ug/l	0.3mg/l	DWS	data not available	
	GW8	Mercury	Annual			<0.10	ug/l	0.001mg/l	DWS	data not available	
	GW8	Potassium	Annual			9	mg/l	5 mg/l	DWS	data not available	
	GW8	Sulphate	Annual			16.2	mg/l		DWS	data not available	
	GW8	Total Alkalinity	Annual				mg/l		DWS	data not available	
	GW8	Total Phosphorus	Annual			<0.15	mg/l		DWS	data not available	
	GW8	Selenium total	Annual			<0.5	ug/l		DWS	data not available	
	GW8	Thallium total	Annual			<0.5	ug/l		DWS	data not available	
	GW8	Tellurium total	Annual			<0.5	ug/l		DWS	data not available	
	GW8	Vanadium, total	Annual			<0.5	ug/l		DWS	data not available	
	GW8	Phenols	Annual			<5.00	ug/l	0.5 ug/l	DWS	data not available	
	GW8	Acenaphthylene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Anthracene	Annual			<0.1	ug/l	0.1 ug/l	DWS	data not available	
	GW8	Benzene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Bromodichloromethane	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Bromoform	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Chloroform	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Chrysene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Dibromochloromethane	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Fluoranthene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Fluorene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Naphthalene	Annual			<0.2	ug/l	1.0 ug/l	DWS	data not available	
	GW8	Dibromochloromethane	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Pentachlorophenol	Annual			<0.1	ug/l	9.0 ug/l	DWS	data not available	
	GW8	Phenanthrene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Pyrene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Tetrachloroethene	Annual			<0.1	ug/l	70 ug/l	DWS	data not available	
	GW8	Trichloroethene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Hexachlorobenzene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Hexachlorobutadiene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	2,4,6-Trichlorophenol	Annual			<0.1	ug/l		DWS	data not available	
	GW8	2,4-Dichlorophenol	Annual			<0.1	ug/l		DWS	data not available	
	GW8	2,4-Dimethylphenol	Annual			<0.1	mg/l		DWS	data not available	
	GW8	2-Chlorophenol	Annual			<0.1	ug/l		DWS	data not available	
	GW8	1,2,4-trichlorobenzene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	1,2-dichlorobenzene	Annual			<0.1	mg/l		DWS	data not available	
	GW8	1,3-dichlorobenzene	Annual			<0.1	mg/l		DWS	data not available	
	GW8	1,4-dichlorobenzene	Annual			<0.1	mg/l		DWS	data not available	
	GW8	2,4,5-Trichlorophenol	Annual			<0.1	mg/l		DWS	data not available	
	GW8	2,4-Dinitrotoluene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	2,6-Dinitrotoluene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	2-Chloronaphthalene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	2-Methylnaphthalene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	2-Methylphenol	Annual			<0.1	ug/l		DWS	data not available	
	GW8	2-Nitrophenol	Annual			<0.1	ug/l		DWS	data not available	
	GW8	4-Bromophenyl Phenyl Ether	Annual			<0.1	ug/l		DWS	data not available	
	GW8	4-Chloro-3-methylphenol	Annual			<0.1	ug/l		DWS	data not available	
	GW8	4-Chlorophenyl phenyl ether	Annual			<0.1	ug/l		DWS	data not available	
	GW8	4-Nitrophenol	Annual			<5.0	ug/l		DWS	data not available	
	GW8	Acenaphthene	Annual			<0.1	ug/l		DWS	data not available	
	GW8	Benzo(a)anthracene	Annual			<0.1	ug/l		DWS	data not available	

Groundwater/Soil monitoring template			Lic No:	W0023-1	Year	2014	
GW8	Benzo(a)pyrene	Annual	<0.1	ug/l		DWS	data not available
GW8	Benzo(b)fluoranthene	Annual	<0.1	ug/l		DWS	data not available
GW8	Benzo(g,h,i)perylene	Annual	<0.1	ug/l		DWS	data not available
GW8	Benzyl Butyl Phthalate	Annual	<0.1	ug/l		DWS	data not available
GW8	Bis(2-chloroethoxy)methane	Annual	<0.1	ug/l		DWS	data not available
GW8	Bis(2-chloroethyl)ether	Annual	<0.1	ug/l		DWS	data not available
GW8	Bis(2-chloroisopropyl)ether	Annual	<0.1	ug/l		DWS	data not available
GW8	Bis(2-ethylhexyl)phthalate	Annual	<0.1	ug/l		DWS	data not available
GW8	Dibenz(a,h)anthracene	Annual	<0.1	ug/l		DWS	data not available
GW8	Dibenzofuran	Annual	<0.1	ug/l		DWS	data not available
GW8	Diethylphthalate	Annual	<0.1	ug/l		DWS	data not available
GW8	di-n-Butylphthalate	Annual	<0.1	ug/l		DWS	data not available
GW8	Di-n-octylphthalate	Annual	<0.1	ug/l		DWS	data not available
GW8	Diphenylamine	Annual	<0.1	ug/l		DWS	data not available
GW8	Hexachloroethane	Annual	<0.1	mg/l		DWS	data not available
GW8	Indeno(1,2,3-c,d)pyrene	Annual	<0.1	ug/l		DWS	data not available
GW8	Isophorone	Annual	<0.1	ug/l		DWS	data not available
GW8	Nitrobenzene	Annual	<0.1	mg/l	10 ug/l	DWS	data not available
GW8	n-Nitrosodi-n-propylamine	Annual	<0.1	mg/l		DWS	data not available
GW8	Acetone	Annual	<0.1	mg/l		DWS	data not available
GW8	Dichloromethane	Annual	<0.1	mg/l		DWS	data not available
GW8	Tetrahydrofuran	Annual	<0.1	ug/l		DWS	data not available
GW8	Toluene	Annual	<0.1	ug/l	700 ug/l	DWS	data not available
GW8	Xylene -o	Annual	<0.1	ug/l		DWS	data not available
GW8	Dichlorodifluoromethane	Annual	<0.1	ug/l		DWS	data not available
GW8	Chloromethane	Annual	<0.1	ug/l		DWS	data not available
GW8	Ethyl Chloride/Chloroethane	Annual	<0.1	ug/l		DWS	data not available
GW8	Vinyl Chloride	Annual	<0.5	ug/l		DWS	data not available
GW8	Bromomethane	Annual	<0.1	ug/l		DWS	data not available
GW8	Trichloromonofluoromethane	Annual	<0.1	ug/l		DWS	data not available
GW8	Ethyl Ether/Diethyl Ether	Annual	<0.1	ug/l		DWS	data not available
GW8	1,1-Dichloroethene	Annual	<0.1	ug/l		DWS	data not available
GW8	Iodomethane/Methyl iodide	Annual	<0.1	ug/l		DWS	data not available
GW8	Carbon Disulphide	Annual	<0.1	ug/l		DWS	data not available
GW8	Allyl Chloride	Annual	<0.1	ug/l		DWS	data not available
GW8	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<0.1	ug/l		DWS	data not available
GW8	Propanenitrile	Annual	<0.1	ug/l		DWS	data not available
GW8	Trans-1,2 Dichloroethene	Annual	<0.1	ug/l		DWS	data not available
GW8	MtBE	Annual	<0.1	ug/l		DWS	data not available
GW8	1,1-dichloroethane	Annual	<0.1	ug/l		DWS	data not available
GW8	2,2-dichloropropane	Annual	<0.1	ug/l		DWS	data not available
GW8	cis-1,2 Dichloroethene	Annual	<0.1	ug/l		DWS	data not available
GW8	2-Butanone	Annual	<0.1	ug/l		DWS	data not available
GW8	Methyl Acrylate	Annual	<0.1	ug/l		DWS	data not available
GW8	Bromochloromethane	Annual	<0.1	ug/l		DWS	data not available
GW8	Methacrylonitrile	Annual	<0.1	ug/l		DWS	data not available
GW8	1,1,1-trichloroethane	Annual	<0.1	ug/l		DWS	data not available
GW8	1-Chlorobutane	Annual	<0.1	mg/l		DWS	data not available
GW8	Carbon Tetrachloride	Annual	<0.1	ug/l		DWS	data not available

Groundwater/Soil monitoring template				Lic No:	W0023-1	Year	2014		
GW8	11 Dichloropropene	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,2 dichloroethane	Annual	<0.1	mg/l		DWS	data not available		
GW8	1,2-dichloropropane	Annual	<0.1	mg/l		DWS	data not available		
GW8	Dibromomethane	Annual	<0.1	mg/l		DWS	data not available		
GW8	Methyl Methacrylate	Annual	<0.1	mg/l		DWS	data not available		
GW8	13 Dichloropropene,cis	Annual	<0.1	ug/l		DWS	data not available		
GW8	MIBK/4 Methyl 2 Pentanone	Annual	<0.1	ug/l		DWS	data not available		
GW8	13 Dichloropropene,trans	Annual	<0.1	ug/l		DWS	data not available		
GW8	Ethyl Methacrylate	Annual	<0.1	ug/l		DWS	data not available		
GW8	112 Trichloroethane	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,3-dichloropropane	Annual	<0.1	ug/l		DWS	data not available		
GW8	2-Hexanone	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,2-dibromoethane	Annual	<0.1	ug/l		DWS	data not available		
GW8	Chlorobenzene	Annual	<0.1	ug/l	100 ug/l	DWS	data not available		
GW8	1,1,1,2-tetrachloroethane	Annual	<0.1	ug/l		DWS	data not available		
GW8	Ethylbenzene	Annual	<0.1	ug/l	300 ug/l	DWS	data not available		
GW8	Xylene P&M	Annual	<0.1	ug/l		DWS	data not available		
GW8	Styrene	Annual	<0.1	ug/l		DWS	data not available		
GW8	Isopropylbenzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	Bromobenzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,1,2,2-tetrachloroethane	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,2,3-trichloropropane	Annual	<0.1	ug/l		DWS	data not available		
GW8	Trans 14 Dichloro 2 Butene, tran	Annual	<0.1	ug/l		DWS	data not available		
GW8	Propylbenzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	2-chlorotoluene	Annual	<0.1	ug/l		DWS	data not available		
GW8	4-chlorotoluene	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,3,5-trimethylbenzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	Tert Butyl Benzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,2,4-trimethylbenzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	sec-butylbenzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	P Isopropyltoluene	Annual	<0.1	ug/l		DWS	data not available		
GW8	N Butyl Benzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,2-dibromo-3-chloropropane	Annual	<0.1	ug/l		DWS	data not available		
GW8	1,2,3-trichlorobenzene	Annual	<0.1	ug/l		DWS	data not available		
GW8	VOC	Annual	<1.0	ug/l	<0.5	DWS	data not available		
GW8	SVOC	Annual	<1	ug/l	<5.0	DWS	data not available		
GW8	Total pesticides	Annual	<0.005	ug/l	0.5	DWS	data not available		
GW8	OPP	Annual	<0.005	ug/l		DWS	data not available		
GW8	OCP	Annual	<30	ng/l		DWS	data not available		
GW8	Triazine Herbicides	Annual	<0.020	ug/l	0.1 ug/l	DWS	data not available		
* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.									
**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 GTV's	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		

Groundwater/Soil monitoring template			Lic No:	W0023-1	Year	2014	
		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 agreed by EPA	Site Operational
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
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	

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	W0023-1	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 An EMS is updated and retained on site on an annual basis since 2008. It includes sections on Use of manual, Site location and description, Types of waste accepted and procedures, Engineering details, Control of nuisance and Environmental management system requirements.
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Additional improvements	Re-line the roadways on the forecourt of the site-2016	0		Individual	Installation of infrastructure
Additional improvements	increase recycling of materials during customers Visits through education and school visits 2013-2015	90		Individual	Installation of infrastructure
Energy Efficiency/Utility conservation	to reduce energy usage on site	40	energy	Individual	Installation of infrastructure

Noise monitoring summary report Lic No: W0023-1 Year: 2014

- 1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below
- 2 Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? [Noise Guidance note NG4](#)
- 3 Does your site have a noise reduction plan
- 4 When was the noise reduction plan last updated?
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{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 site compliant with noise limits (day/evening/night)?	
								No	SELECT		SELECT	
								No				
		No noise survey carried out in 2014							No			
								No				
								No				
								No				
								No				
								No				
								No				
								No				
								No				

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

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

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

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary

Lic No:

W0023-1

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

[SEAI - Large Industry Energy Network \(LIEN\)](#)

2007	
no	
SELECT	N/A

Table R1 Energy usage on site				
Energy Use	Previous year	Current year (2013)	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	0.03927	0.07038		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	0.03927	0.07038		
Fossil Fuels Consumption:	N/A	N/A	N/A	N/A
Heavy Fuel Oil (m3)	N/A	N/A	N/A	N/A
Light Fuel Oil (m3)	N/A	N/A	N/A	N/A
Natural gas (CMN)	N/A	N/A	N/A	N/A
Coal/Solid fuel (metric tonnes)	N/A	N/A	N/A	N/A
Peat (metric tonnes)	N/A	N/A	N/A	N/A
Renewable Biomass	N/A	N/A	N/A	N/A
Renewable energy generated on site	N/A	N/A	N/A	N/A

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

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

Table R2 Water usage on site				Water Emissions	Water Consumption		
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	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	Not metered			0	0	49	
Recycled water							
Total							

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

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

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	0				
Non-Hazardous (Tonnes)	0				

Resource Usage/Energy efficiency summary Lic No: W0023-1 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					

WASTE SUMMARY												
						Lic No: W0023-1		Year: 2014				
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES						PRTR facility logon		dropdown list click to see options				
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 06	Yes		synthetic engine, gear 5.18 and lubricating oils	R9	M	Weighed	Offsite in Ireland	ENVA ,IPC 472 WMC 16/01	ENVA ,Cionminam Industrial Estate ,Portlaoise...Ireland and Sarsfield Court ,Glanmire ,Co. Cork	ENVA ,W0184-01,ENVA ,Cionminam Industrial Estate ,Portlaoise...Ireland	ENVA ,Cionminam Industrial Estate ,Portlaoise...Ireland
Within the Country	15 01 01	No		paper and cardboard 104.9 packaging	R5	M	Weighed	Offsite in Ireland	Greenstar Limited,WL 136-2; CKWMC 20/04	Cork ,Ireland Corbally North ,Glanmire		
Within the Country	15 01 02	No		33.24 plastic packaging	R13	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK3 46/03 CKMWC 183/03	Cork...Ireland Corbally North ,Glanmire		
Within the Country	15 01 04	No		4.16 metallic packaging	R4	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK3 46/03 CKMWC 183/03	Cork...Ireland Corbally North ,Glanmire		
Within the Country	15 01 04	No		1.62 metallic packaging	R13	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK3 46/03 CKMWC 183/03	Cork...Ireland Kilmallock ,Co. Limerick...Ireland		
Within the Country	15 01 07	No		71.56 glass packaging	R5	M	Weighed	Offsite in Ireland	Mr. Binman,W0061-01		KMK Metals ,W0133-03,Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland	Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland
Within the Country	16 06 01	Yes		0.06 lead batteries mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R6	M	Weighed	Offsite in Ireland	KMK Metals ,W0133-03	Cork,Cork,Ireland		
Within the Country	17 01 07	No		1260.86 01 06	R5	M	Weighed	Offsite in Ireland	Ballineen Skip Hire,CK-0054-01			
Within the Country	17 08 02	No		gypsum-based construction materials other than those 71.0 mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Gypsum Recycling Ireland Ltd ,W0140-3	Tullamore Co. Offaly ,Ireland Carrigwohill		
Within the Country	19 07 03	No		landfill leachate other than those mentioned	R12	M	Weighed	Offsite in Ireland	Carrigwohill wastewater treatment plant,D0044-01	Cork...Ireland Augnacureen,Killarney Co Kerry,Kerry,Ireland		
Within the Country	20 01 01	No		121.42 paper and cardboard	R13	M	Weighed	Offsite in Ireland	Killarney Waste Disposal - KWD,W0217-01			
Within the Country	20 01 02	No		61.44 glass	R5	M	Weighed	Offsite in Ireland	MSM Recycling ,W0079-01	41 Cookstown Industrial Estate ,Tallaght ,Co. Dublin...Ireland		
Within the Country	20 01 11	No		8.82 textiles	R5	M	Weighed	Offsite in Ireland	Textile Recycling Ltd.,Charity no number	Glen Abbey Complex ,Belgard Road ,Tallaght ,Dublin 24 ,Ireland		
Within the Country	20 01 28	No		paint, inks, adhesives and resins other than those mentioned in 20	R2	M	Weighed	Offsite in Ireland	ENVA ,IPC 472 WMC 16/01	ENVA ,Cionminam Industrial Estate ,Portlaoise...Ireland		
Within the Country	20 01 34	No		batteries and accumulators other than those mentioned in 20 01 33	R6	M	Weighed	Offsite in Ireland	KMK Metals ,W0133-03	Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland		

WASTE SUMMARY Lic No: W0023-1 Year: 2014

Location	Code	Quantity (tonnes)	Material	Code	Weight	Location	Facility	Address
Within the Country	20 01 36	229.5	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals ,W0133-03 Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland
Within the Country	20 01 38	746.09	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	CTO Environmental Solutions,CK(S)283/06 Kinsale Road landfill ,blackash ,Cork City,Cork ,Ireland
Within the Country	20 01 40	207.92	metals	R4	M	Weighed	Offsite in Ireland	Pouladuff Dismantlers,WMP 08/01 Forge Hill ,Cork ,Ireland
Within the Country	20 02 01	845.6	biodegradable waste	R3	M	Weighed	Offsite in Ireland	CTO Environmental Solutions,W0012-02 Kinsale Road Landfill & Rostellan (CK(S) 283/06 & Cork County Council Bandon Recycling Centre (R 1605) Environmental Solutions ,Kinsale Road Landfill ,Kinsale Road ,Cork,Ireland
Within the Country	20 03 01	416.7	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Country Clean Recycling. W0257 Churchfield ind est, John F Connolly Road, Co. Cork
Within the Country	20 03 07	1859.6	bulky waste	R3	M	Weighed	Offsite in Ireland	Greenstar Limited,WL 136-2; CKWMC 20/04 Sarfield Court ,Glanmire ,Co. Cork ,Cork,Ireland
Within the Country	16 06 04	1.54	alkaline batteries (except 16 06 03)	R4	M	Weighed	Offsite in Ireland	KMK Metals ,W0133-03 Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland
Within the Country	20 01 21	0.86	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	KMK Metals ,W0133-03 Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland
Within the Country	20 01 25	1.02	edible oil and fat	R9	M	Weighed	Offsite in Ireland	Frylite,WFP-CK-11-0092 Business Park,Little

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

1 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)

Additional Information

SELECT	
--------	--

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

SELECT	
--------	--

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

SELECT	
--------	--

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	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 -
	European Waste Catalogue EWC codes		Please enter an accurate and detailed description which applies to European Waste Catalogue EWC codes								

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

SELECT	
SELECT	

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

SELECT	
--------	--

WASTE SUMMARY	Lic No:	W0023-1	Year	2014
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Table 4 Environmental monitoring-landfill on [Landfill Manual-Monitoring Standards](#)

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

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

Table 5 Capping-Landfill only

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

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

SELECT

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

SELECT

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

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

Table 7 Landfill Gas-Landfill only

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