SELECT	cells that are highlighted blue cont
guidance document link	cells that contain underlined text c
Table heading *	table headings followed by a symb
Cells with red indicator in top right corner	cells that have a red indicator in th

:ain a dropdown menu click to select one option from the list

:lick to access relevant guidance documents for this section

ol have an associated footnote or instructions

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

Facility Information Summary	
AER Reporting Year	2017
Licence Register Number	W0002-01
Name of site	Ballyguyroe Landfill
Site Location	Ballyguyroe North,Kildorrey Mallow Co.Cork
NACE Code	
Class/Classes of Activity	
National Grid Reference (6E, 6 N)	

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence** listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.	The landfill facility at Ballyguyroe North has been in operation since 1990, accepting waste at an annual rate of approx 20,000 tonnes . The site reached full capacity and cloased for the acceptance of waste on Thursday 27th September 2001. Cork County Council held a waste licence (Register No. 2-1) to operate Ballyguyroe landfill site until March 15th 2004, when it obtained a new licence (register No 2-2/W 002-02).Inaccordance with therequirments of Condition 11.3 of the waste licence, an AER for the facility is submitted to the agency annually in March. Ballyguyroe landfill site occupies approx 15 hectares and is located 6km north-west of the village of Kildorrey. The site lies inthe Blackwater catchment with the Farahy River flowing southwards within the valey outside the eastern boundary. Surface water from the site drains in to this river. The ground water quality in this area is indicative of the overburben geology, being high in manganese. In 2015 Cork County Council carried out a review of Ballyguyroe license, with the aim of reducing environmental monitoirng. This review was approved by the EPA in 2015 (See submission LRO18556). Environmental monitoring is as follows ; Surface water and ground water sampling reduced to twice yearly, perimeter landfill gas monitoring reduced to quarterly, landfill cell gas monitoirng reduced to quarterly, meteorological recording reduced to monthly and reporting reduced to twice yearly. AER and annual sampling parameters are unchanged.

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		Date
Group/Facility manager (or nominated, suitably qualified and experienced deputy)	Marie Mortell	7/2/2017

AIR-summary template	Lic No:	W0002-01	Year	2017

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	SELECT	n/a

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

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 therof	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
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

AIR-summary template	Lic No:	W0002-01	Year	2017

Continuous Monitoring

4	Does your site carry out continuous air emissions monitoring?	SELECT	
	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)		
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below	SELECT	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT	
7	Did your site experience any abatement system bypasses? If yes please detail them in table 4 below	SELECT	

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
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

Table A3: Abatement system bypass reporting table Bypass protocol

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

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

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

AIR-summary template	Lic No:	W0002-01	Year	2017

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	Total VOC emissions as %of solvent	Total Emission Limit Value (ELV) in licence or any revision therof	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	

Frns summary template-WATER/WASTEWATER(SEWER)	Lic No:	W0002-01	Year	2017

			Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections	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	no	

Table W1 Surface water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SS2	downstream		pH	Quarterly	No ELV or trigger levels	N/A	6.4	pH units	yes	Median Vaulue for 2017
SS2	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median Vaulue for 2017
SS2	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	77.30	µS/cm@25oC	yes	Median Vaulue for 2017
SS2	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A		mg/L	yes	Median Vaulue for 2017
SS2	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	17.50	mg/L	yes	Median Vaulue for 2017
SS2	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	yes	Median Vaulue for 2017
SS2	downstream		COD	Quarterly	No ELV or trigger levels	N/A	89.40	mg/L	yes	Median Vaulue for 2017
SS2	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	<0.2	mg/L	yes	Median Vaulue for 2017
SS2	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	<2	mg/L	yes	Median Vaulue for 2017
SS2	downstream	Chromium and compounds (as Cr)		Annual	N			µg/L	y	Annual results 2017
SS2	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SS2	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SS2	downstream		Iron	Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SS2	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SS2	downstream		Magnesium	Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SS2	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SS2	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SS2	downstream		Potassium	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result
SS2	downstream		Sulphate	Annual				mg/L	yes	Annual result
SS2	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result
SS2	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SS2	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result
SS5	downstream		pH	Quarterly	No ELV or trigger levels	N/A	8.0	pH units	yes	Annual result for 2017
SS5	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median Vaulue for 2017
SS5	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	223	µS/cm@25oC	yes	Median Vaulue for 2017
SS5	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A		mg/L	yes	Median Vaulue for 2017
SS5	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	12.8	mg/L	yes	Median Vaulue for 2017
SS5	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	yes	Median Vaulue for 2017
SS5	downstream		COD	Quarterly	No ELV or trigger levels	N/A	49.5	mg/L	yes	Median Vaulue for 2017
SS5	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.37	mg/L	yes	Median Vaulue for 2017
SS5	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	<2	mg/L	yes	Median Vaulue for 2017
SS5	downstream	Chromium and compounds (as Cr)		Annual				µg/L	yes	
SS5	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
SS5	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
SS5	downstream		Iron	Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
SS5	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
SS5	downstream		Magnesium	Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017

rns summary template-WATER/WASTEWATER(SEWER)						Lic No:	W0002-01		Year	2017
SS5	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
SS5	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
SS5	downstream		Potassium	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result for 2017
SS5	downstream		Sulphate	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result for 2017
SS5	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result for 2017
SS5	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
SS5	downstream	Total phosphorus		annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result for 2017
RS1	downstream		pH		No ELV or trigger levels	N/A	6.9	pH units	yes	Median vaule for 2017
RS1	downstream		Temperature		No ELV or trigger levels	N/A		degrees C	yes	Median vaule for 2017
RS1	downstream		Conductivity		No ELV or trigger levels	N/A	70.0	µS/cm@25oC	yes	Median vaule for 2017
RS1	downstream		Dissolved Oxygen	mg/l	No ELV or trigger levels	N/A		mg/L	yes	Median vaule for 2017
RS1	downstream	Chlorides (as Cl)		mg/l	No ELV or trigger levels	N/A	14.4	mg/L	yes	Median vaule for 2017. Tidal infulence
RS1	downstream		BOD	mg/l	No ELV or trigger levels	N/A	<1	mg/L	yes	Median vaule for 2017
RS1	downstream		COD	mg/l	No ELV or trigger levels	N/A	57.70	mg/L	yes	Median vaule for 2017
RS1	downstream		Ammonia (as N)	mg/l	No ELV or trigger levels	N/A	<0.2	mg/L	yes	Median vaule for 2017
RS1	downstream		Suspended Solids	mg/l	No ELV or trigger levels	N/A	<2	mg/L	yes	Median vaule for 2017
RS1	downstream	Chromium and compounds (as Cr)		ug/l	No ELV or trigger levels	N/A	<3	µg/L	yes	annual result
RS1	downstream	Copper and compounds (as Cu)		ug/l	No ELV or trigger levels	N/A	<0.3	µg/L	yes	Median vaule for 2017
RS1	downstream	Cadmium and compounds (as Cd)		ug/l	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
RS1	downstream		Iron	ug/l	No ELV or trigger levels	N/A	0.375	µg/L	yes	Annual result for 2017
RS1	downstream	Lead and compounds (as Pb)		ug/l	No ELV or trigger levels	N/A	<0.2	µg/L	yes	Annual result for 2017
RS1	downstream		Magnesium	mg/l	No ELV or trigger levels	N/A	2.98	µg/L	yes	Annual result for 2017
RS1	downstream		Manganese (as Mn)	ug/l	No ELV or trigger levels	N/A	24.4	µg/L	yes	Annual result for 2017.EQS limit is
RS1	downstream	Mercury and compounds (as Hg)		ug/l	No ELV or trigger levels	N/A	<0.01	µg/L	yes	Annual result for 2017.
RS1	downstream		Potassium	mg/l	No ELV or trigger levels	N/A	<1	mg/L	yes	Annual result for 2017
RS1	downstream		Sulphate	mg/l			<2	mg/L	yes	Annual result for 2017.
RS1	downstream		Total Oxidised Nitrogen (TON)	mg/l	No ELV or trigger levels	N/A	0.246	mg/L	yes	Annual result for 2017
RS1	downstream	Zinc and compounds (as Zn)		ug/l	No ELV or trigger levels	N/A	1.26	µg/L	yes	Annual result for 2017
RS1	downstream	Total phosphorus		mg/k	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result for 2017
RS2	upstream		pH	Quarterly	No ELV or trigger levels	N/A	7.0	pH units	yes	Median vaule for 2017
RS2	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median vaule for 2017
RS2	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	77	µS/cm@25oC	yes	Median vaule for 2017
RS2	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A		mg/L	yes	Median vaule for 2017
RS2	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	14.6	mg/L	yes	Median vaule for 2017
RS2	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	yes	Median vaule for 2017
RS2	upstream		COD	Quarterly	No ELV or trigger levels	N/A	57.7	mg/L	yes	Median vaule for 2017.
RS2	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	<0.2	mg/L	yes	Median vaule for 2017
RS2	upstream		Suspended Solids	Annual		n/a	<2	mg/L	yes	Annual results
RS2	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<3	µg/L	yes	Annual result for 2017
RS2	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<0.3	µg/L	yes	Annual result for 2017
RS2	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result for 2017
RS2	upstream		Iron	Annual	No ELV or trigger levels	N/A	0.371	µg/L	yes	Annual result for 2017.
RS2	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<0.2	µg/L	yes	Annual result for 2017
RS2	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	3.03	µg/L	yes	Annual result for 2017.
RS2	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	22.5	µg/L	yes	Annual result for 2017
RS2	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.01	µg/L	yes	Annual result for 2017
RS2	upstream		Potassium	Annual	No ELV or trigger levels		<1	mg/L	yes	Annual result for 2017
RS2	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	<2	mg/L	yes	Annual result for 2017

rns summary template-WATER/WASTEWATER(SEWER)						Lic No:	W0002-01		Year	2017
RS2	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	1.12	mg/L	yes	Annual result for 2017
RS2	upstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	6.46	µg/L	yes	Annual result for 2017
RS2	upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	<20	mg/L	yes	Annual result for 2017

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	SELECT	

External /Internal Lab Quality checklist

Assessment of results checklist

ıter and /or wastewater (sewer)-periodic monitoring (non-continuous)

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

ıric 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

rns summary template-WATER/WASTEWATER(SEWER)	Lic No:	W0002-01	Year	2017

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

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**	SELECT	
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	SELECT	
8	Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below**	SELECT	

mary 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
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

ric flow shall be included as a reportable parameter.

5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	

en or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template	Lic No:	W0002-01	Year	2017	

Bund testing

dropdown menu click to see options

			Additional information
1	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**	SELECT	n/a
2	Please provide integrity testing frequency period	SELECT	
3	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)	SELECT	
4	How many bunds are on site?		
5	How many of these bunds have been tested witin the required test schedule?		
6	How many mobile bunds are on site?		
7	Are the mobile bunds included in the bund test schedule?	SELECT	
8	How many of these mobile bunds have been tested witin the required test schedule?		
9	How many sumps on site are included in the integrity test schedule?		
10	How many of these sumps are integrity tested within the test schedule?		
	Please list any sump integrity failures in table B1		
11	Do all sumps and chambers have high level liquid alarms?	SELECT	
12	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 25% or 110% containment rule as detailed in your licence

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

Pipeline/underground structure testing

1	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**	SELECT	
2	Please provide integrity testing frequency period	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

oil monitoring template		Lic No:	W0002-01	Year 2017
				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?		yes	
10	Has a Conceptual Site Model been developed for the site?		yes	
11	Have potential receptors been identified on and off site?		yes	
12	Is there evidence that contamination is migrating offsite?		no	

roundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SW EQS	Upward trend in pollutant concentration over last 5 years of monitoring data
BiANNUAL	**981s**	pH	**Meter**	**Quarterly**	11.4	9.9	SELECT		9.5	no
BiANNUAL		Temp	Meter	BiANNUAL	639	511			25	no
BiANNUAL		Elec.Conductivity	Meter	BiANNUAL	48.6	26.0		800-1875	1000	no
BiANNUAL		Chlorides	titration	BiANNUAL	0.03	0.02	mg/l	24-187.5	250	no
BiANNUAL		Ammoniacal Nitorgen	ISE	BiANNUAL	0.06	0.06	mg/l	0.065-0.175		no
Annual		Iron	ICP	annual	<0.2	<0.2	ug/l		0.2	no
Annual		TON	HACH	annual	1.9	1.3	ug/l	-	No abnormal change	no
Annual		TOC	TOC analyser	BiANNUAL	<1	<1	mg/l			no
Annual		Cadmium	ICP	Annual	<1	<1	ug/l	-	0.005	no
Annual		Chromium (total)	ICP	Annual	3.6	3.6	ug/l	37.5	0.03	no
Annual		Copper	COLORIMETRY	Annual	<0.01	<0.01	ug/l	1500	0.03	no
Annual		Cyanide (Total)	ICP	Annual	<1	<1	ug/l	-	0.01	no
Annual		Lead	ICP	Annual	6.06	6.06	ug/l	18.75	0.01	no
Annual		Mangnesium	ICP	Annual	833	833	mg/l	-	50	no
Annual		Manganese	ICP	Annual	<0.5	<0.5	ug/l	-	0.05	no
Annual		Mercury	ICP	Annual	<1	<1	ug/l	0.75	0.001	no
Annual		Nickle	ICP	Annual	1	1	ug/l	15	0.02	no
Annual		Potassium	ICP	Annual	2.18	2.18	mg/l	-	5	no
Annual		Sulphate	Aquakem auto analyser	Annual	336	336	mg/l	187.5	200	no
Annual		Total Alkalinity	icp	Annual	0.06	0.06	mg/l	-		no
Annual		Total Phosphorus	spectrophotometry apha	Annual	<0.01	<0.01	mg/l	0.09		no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Naphthalene	GC-MS	Annual	<0.01	<0.01	ug/l		0.5	no
Annual		Acenaphthylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Chrysene	GC-MS	Annual	0.01	0.01	ug/l		1	no
Annual		Fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Fluorene	GC-MS	Annual	0.01	0.01	ug/l			no
Annual		Pyrene	GC-MS	Annual	0.01	0.01	ug/l		12	no
Annual		Phenanthrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromoform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloroform	GC-MS	Annual			ug/l			no
Annual		Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Vinyl Chloride	GC-MS	Annual			ug/l		2	no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l		0.03	no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l		0.1	no
Annual		1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
Annual		12 Dichloroehtane	GC-MS	Annual	<1	<1	ug/l	2.25		no
Annual		1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		112 Trichloroethane	GC-MS	Annual			ug/l			no
Annual		1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Hexanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
Annual		Styrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		sec-butylbenzene	GC-MS	Annual	<5	<5	ug/l			no
Annual		Pentachlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
Annual		Hexachlorobutadiene	GC-MS	Annual	<5	<5	ug/l			no
Annual		2,4,6-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
Annual		2,4-Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		2,4-Dimethylphenol	GC-MS	Annual	<5	<5	ug/l			no
Annual		2-Chlorophenol	GC-MS	Annual	<5	<5	ug/l			no
Annual		1,2,4-trichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
Annual		1,3-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
Annual		1,4-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
Annual		2,4,5-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		4-Chlorophenyl phenyl ether	GC-MS	Annual			ug/l			no
Annual		4-Nitrophenol	GC-MS	Annual	0.01	0.01	ug/l			no
Annual		Acenaphthene	GC-MS	Annual	0.01	0.01	ug/l			no
Annual		Benzo(a)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Benzo(a)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l	0.0075		no
Annual		Benzo(b)fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Benzo(g,h,i)perylene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Dibenz(a,h)anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l		30	no
Annual		Di-n-octylphthalate	GC-MS	Annual			ug/l			no
Annual		Diphenylamine	GC-MS	Annual	<5	<5	ug/l			no
Annual		Hexachloroethane	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isophorone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Nitrobenzene	GC-MS	Annual			ug/l			no
Annual		n-Nitrosodi-n-propylamine	GC-MS	Annual			ug/l		500	no
Annual		Acetone	GC-MS	Annual			ug/l			no
Annual		Dichloromethane	GC-MS	Annual			ug/l			no
Annual		Tetrahydrofuran	GC-MS	Annual			ug/l			no
Annual		Toluene	GC-MS	Annual			ug/l			no
Annual		Xylene -o	GC-MS	Annual			ug/l			no
Annual		Dichlorodifluoromethane	GC-MS	Annual			ug/l			no
Annual		Ethyl Chloride/Chloroethane	GC-MS	Annual			ug/l			no
Annual		Ethyl Ether/Diethyl Ether	GC-MS	Annual			ug/l			no
Annual		Iodomethane/Methyl Iodide	GC-MS	Annual			ug/l			no
Annual		Carbon Disulphide	GC-MS	Annual			ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Allyl Chloride	GC-MS	Annual			ug/l			no
Annual		Chlormethyl Cyanide/Chloroacetonitrile	GC-MS	Annual			ug/l			no
Annual		Propanenitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans-1,2 Dichloroethene	GC-MS	Annual			ug/l			no
Annual		MtBE	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l		1	no
Annual		cis-12 Dichloroethene	GC-MS	Annual			ug/l			no
Annual		2-Butanone	GC-MS	Annual			ug/l		10	no
Annual		Methyl Acrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromochloromethane	GC-MS	Annual			ug/l			no
Annual		Methacrylonitrile	GC-MS	Annual			ug/l			no
Annual		1-Chlorobutane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromomethane	GC-MS	Annual			ug/l			no
Annual		Methyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,cis	GC-MS	Annual			ug/l			no
Annual		MIBK/4 Methyl 2 Pentanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3 Dichloropropene,trans	GC-MS	Annual			ug/l			no
Annual		Ethyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromobenzene	GC-MS	Annual			ug/l			no
Annual		Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual	<1	<1	ug/l			no
Annual		P Isopropyltoluene	GC-MS	Annual			ug/l			no
Annual		N Butyl Benzene	GC-MS	Annual			ug/l			no
Annual		1,2-dibromo-3-chloropropane	GC-MS	Annual			ug/l			no
Annual		1,2,3-trichlorobenzene	GC-MS	Annual	<0.1	<0.1	ug/l			no
Annual		Mecoprop	GC-MS	Annual			ug/l			no
Annual		Bentazone	GC-MS	Annual	<0.01	<0.01	ug/l			
Annual		Simazine	GC-MS	Annual	<0.1	<0.1	ug/l			
BiANNUAL	**98 1D**	pH	**Meter**	**Quarterly**	7.1	6.8	SELECT		9.5	no
BiANNUAL		Temp	Meter	Quarterly	11.1	9.7			25	no
BiANNUAL		Elec.Conductivity	Meter	Quarterly	601	324		800-1875	1000	no
BiANNUAL		Chlorides	titration	Quarterly	17.6	13.9	mg/l	24-187.5	250	no
Annual		Ammoniacal Nitorgen	ISE	Quarterly	0.04	0.02	mg/l	0.065-0.175		no
Annual		Iron	ICP	annual	0.02	0.02	ug/l		0.2	no
Annual		TON	HACH	annual	0.3	0.3	ug/l	-	No abnormal change	no
Annual		TOC	TOC analyser	Quarterly	1.43	0.73	mg/l			no
Annual		Cadmium	ICP	Annual	<1	<1	ug/l	-	0.005	no
Annual		Chromium (total)	ICP	Annual	<1	<1	ug/l	37.5	0.03	no
Annual		Copper	COLORIMETRY	Annual	<1	<1	ug/l	1500	0.03	no
Annual		Cyanide (Total)	ICP	Annual	<0.01	<0.01	ug/l	-	0.01	no
Annual		Lead	ICP	Annual	<1	<1	ug/l	18.75	0.01	no
Annual		Mangnesium	ICP	Annual	7.79	7.79	mg/l	-	50	no
Annual		Manganese	ICP	Annual	22.6	22.6	ug/l	-	0.05	no
Annual		Mercury	ICP	Annual	<0.5	<0.5	ug/l	0.75	0.001	no
Annual		Nickle	ICP	Annual	<1	<1	ug/l	15	0.02	no
Annual		Potassium	ICP	Annual	<1.0	<1.0	mg/l	-	5	no
Annual		Sulphate	Aquakem auto analyser	Annual	3.4	3.4	mg/l	187.5	200	no
Annual		Total Alkalinity	icp	Annual	100	100	mg/l	-		no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Total Phosphorus	spectrophotometry apha	Annual	0.09	0.09	mg/l	0.09		no
Annual		Naphthalene	GC-MS	Annual	<0.01	<0.01	ug/l		0.5	no
Annual		Acenaphthylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Anthracene	GC-MS	Annual	0.01	0.01	ug/l			no
Annual		Chrysene	GC-MS	Annual	<0.01	<0.01	ug/l		1	no
Annual		Fluoranthene	GC-MS	Annual	0.01	0.01	ug/l			no
Annual		Fluorene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Pyrene	GC-MS	Annual	0.01	0.01	ug/l		12	no
Annual		Phenanthrene	GC-MS	Annual	0.01	0.01	ug/l			no
Annual		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromoform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloroform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromochloromethane	GC-MS	Annual			ug/l			no
Annual		Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l		2	no
Annual		Chloromethane	GC-MS	Annual			ug/l			no
Annual		Trichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l		0.03	no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l		0.1	no
Annual		1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2 dichloroethane	GC-MS	Annual	<1	<1	ug/l	2.25		no
Annual		1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		112 Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3-dichloropropane	GC-MS	Annual			ug/l			no
Annual		2-Hexanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
Annual		Styrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		sec-butylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Pentachlorophenol	GC-MS	Annual	<5	<5	ug/l			no
Annual		Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobutadiene	GC-MS	Annual	<5	<5	ug/l			no
Annual		2,4,6-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		2,4-Dichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
Annual		2,4-Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chlorophenol	GC-MS	Annual	<5	<5	ug/l			no
Annual		1,2,4-trichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
Annual		1,2-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
Annual		1,4-dichlorobenzene	GC-MS	Annual	<5	<5	ug/l			no
Annual		2,4,5-Trichlorophenol	GC-MS	Annual	<5	<5	ug/l			no
Annual		2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Nitrophenol	GC-MS	Annual			ug/l			no
Annual		Acenaphthene	GC-MS	Annual	0.01	0.01	ug/l			no
Annual		Benzo(a)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Benzo(a)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l	0.0075		no
Annual		Benzo(b)fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Benzo(g,h,i)perylene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibenz(a,h)anthracene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l		30	no
Annual		Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diphenylamine	GC-MS	Annual			ug/l			no
Annual		Hexachloroethane	GC-MS	Annual	<5	<5	ug/l			no
Annual		Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l			no
Annual		Isophorone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		n-Nitrosodi-n-propylamine	GC-MS	Annual			ug/l		500	no
Annual		Acetone	GC-MS	Annual			ug/l			no
Annual		Dichloromethane	GC-MS	Annual			ug/l			no
Annual		Tetrahydrofuran	GC-MS	Annual			ug/l			no
Annual		Toluene	GC-MS	Annual			ug/l			no
Annual		Xylene -o	GC-MS	Annual			ug/l			no
Annual		Dichlorodifluoromethane	GC-MS	Annual			ug/l			no
Annual		Ethyl Chloride/Chloroethane	GC-MS	Annual			ug/l			no
Annual		Ethyl Ether/Diethyl Ether	GC-MS	Annual			ug/l			no
Annual		Iodomethane/Methyl Iodide	GC-MS	Annual			ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Carbon Disulphide	GC-MS	Annual			ug/l			no
Annual		Allyl Chloride	GC-MS	Annual			ug/l			no
Annual		Chlormethyl Cyanide/Chloroacetonitrile	GC-MS	Annual			ug/l			no
Annual		Propanenitrile	GC-MS	Annual			ug/l			no
Annual		Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		MtBE	GC-MS	Annual			ug/l			no
Annual		2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l		1	no
Annual		cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Butanone	GC-MS	Annual			ug/l		10	no
Annual		Methyl Acrylate	GC-MS	Annual			ug/l			no
Annual		Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methacrylonitrile	GC-MS	Annual			ug/l			no
Annual		1-Chlorobutane	GC-MS	Annual			ug/l			no
Annual		Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Methacrylate	GC-MS	Annual			ug/l			no
Annual		13 Dichloropropene,cis	GC-MS	Annual	<1	<1	ug/l			no
Annual		MIBK/4 Methyl 2 Pentanone	GC-MS	Annual			ug/l			no
Annual		1,3 Dichloropropene,trans	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Methacrylate	GC-MS	Annual			ug/l			no
Annual		Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual			ug/l			no
Annual		P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		N Butyl Benzene	GC-MS	Annual			ug/l			no
Annual		1,2-dibromo-3-chloropropane	GC-MS	Annual			ug/l			no
Annual		1,2,3-trichlorobenzene	GC-MS	Annual			ug/l			no
Annual		Mecoprop	GC-MS	Annual	<0.1	<0.1	ug/l			no
Annual		Bentazone	GC-MS	Annual					9.5	data not available
Annual		Simazine	GC-MS	Annual	<0.01	<0.01			25	data not available

oncentration from all monitoring results produced during the reporting year

Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SW EQS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Biannual	G18	pH		Biannual	6.43	6.43	SELECT		9.5	no
Biannual		Temp		Biannual					25	no
Biannual		Elec.Conductivity		Biannual	176	176		800-1875	1000	no
Biannual		Chlorides		Biannual	12.3	12.3	mg/l	24-187.5	250	no
Annual		Ammoniacal Nitorgen		Biannual	1.02	1.02	mg/l	0.065-0.175		no
Annual		Iron		annual	29.1	29.1	ug/l		0.2	no
Annual		TON		annual	<0.1	<0.1	ug/l	-	No abnormal change	no
Annual		TOC		Quarterly	<3	<3	mg/l			no
Annual		Cadmium		Annual	<0.08	<0.08	ug/l	-	0.005	no
Annual		Chromium (total)		Annual	3.03	3.03	ug/l	37.5	0.03	no

oil monitoring template					Lic No:	W0002-01		Year	2017	
Annual		Copper		Annual	<0.3	<0.3	ug/l	1500	0.03	no
Annual		Cyanide (Total)		Annual	<0.01	<0.01	ug/l	-	0.01	no
Annual		Lead		Annual	0.211	0.211	ug/l	18.75	0.01	no
Annual		Mangnesium		Annual	6.6	6.6	mg/l	-	50	no
Annual		Manganese		Annual	1060	1060	ug/l	-	0.05	no
Annual		Mercury		Annual	<0.01	<0.01	ug/l	0.75	0.001	no
Annual		Nickle		Annual	7.68	7.68	ug/l	15	0.02	no
Annual		Potassium		Annual	<1	<1	mg/l	-	5	no
Annual		Sulphate		Annual	<2	<2	mg/l	187.5	200	no
Annual		Total Alkalinity		Annual	75	75	mg/l	-		no
Annual		Total Phosphorus		Annual	275	275	mg/l	0.09		no
Biannual	96 3s	pH	**Meter**	Biannual	6.7	6.7	SELECT		9.5	no
Biannual		Temp	Meter	Biannual					25	no
Biannual		Elec.Conductivity	Meter	Biannual	82.4	82.4		800-1875	1000	no
Biannual		Chlorides	titration	Biannual	12.7	12.7	mg/l	24-187.5	250	no
Biannual		Ammoniacal Nitorgen	ISE	Biannual	7.3	7.3	mg/l	0.065-0.175		yes
Annual		Iron	ICP	annual	8.47	8.47	ug/l		0.2	no
Annual		TON	HACH	annual	<0.1	<0.1	ug/l	-	No abnormal change	no
Annual		TOC	TOC analyser	Quarterly	<3	<3	mg/l			no
Annual		Cadmium	ICP	Annual	<0.08	<0.08	ug/l	-	0.005	no
Annual		Chromium (total)	ICP	Annual	30.3	30.3	ug/l	37.5	0.03	no
Annual		Copper	COLORIMETRY	Annual	1.12	1.12	ug/l	1500	0.03	no
Annual		Cyanide (Total)	ICP	Annual	<0.05	<0.05	ug/l	-	0.01	no
Annual		Lead	ICP	Annual	<0.2	<0.2	ug/l	18.75	0.01	no
Annual		Mangnesium	ICP	Annual	0.377	0.377	mg/l	-	50	no
Annual		Manganese	ICP	Annual	1580	1580	ug/l	-	0.05	no
Annual		Mercury	ICP	Annual	<0.01	<0.01	ug/l	0.75	0.001	no
Annual		Nickle	ICP	Annual	30	30	ug/l	15	0.02	no
Annual		Potassium	ICP	Annual	1	1	mg/l	-	5	no
Annual		Sulphate	Aquakem auto analyser	Annual	<2	<2	mg/l	187.5	200	no
Annual		Total Alkalinity	icp	Annual	22.5	22.5	mg/l	-		no
Annual		Total Phosphorus	spectrophotometry apha	Annual	619	619	mg/l	0.09		no
Biannual	96 3D	pH	**Meter**	Biannual			SELECT		9.5	no
Biannual		Temp	Meter	Biannual					25	no
Biannual		Elec.Conductivity	Meter	Biannual				800-1875	1000	no
Biannual		Chlorides	titration	Biannual			mg/l	24-187.5	250	no
Biannual		Ammoniacal Nitorgen	ISE	Biannual			mg/l	0.065-0.175		yes
Annual		Iron	ICP	annual			ug/l		0.2	no
Annual		TON	HACH	annual			ug/l	-	No abnormal change	no
Annual		TOC	TOC analyser	Quarterly			mg/l			no
Annual		Cadmium	ICP	Annual			ug/l	-	0.005	no
Annual		Chromium (total)	ICP	Annual			ug/l	37.5	0.03	no
Annual		Copper	COLORIMETRY	Annual			ug/l	1500	0.03	no
Annual		Cyanide (Total)	ICP	Annual			ug/l	-	0.01	no
Annual		Lead	ICP	Annual			ug/l	18.75	0.01	no
Annual		Mangnesium	ICP	Annual			mg/l	-	50	no
Annual		Manganese	ICP	Annual			ug/l	-	0.05	no

Ground water well is blocked and unabe to retrieve a sample

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Mercury	ICP	Annual			ug/l	0.75	0.001	no
Annual		Nickle	ICP	Annual			ug/l	15	0.02	no
Annual		Potassium	ICP	Annual			mg/l	-	5	no
Annual		Sulphate	Aquakem auto analyser	Annual			mg/l	187.5	200	no
Annual		Total Alkalinity	icp	Annual			mg/l	-		no
Annual		Total Phosphorus	spectrophotometry apha	Annual			mg/l	0.09		no
Biannual	96 4s	pH		Biannual	7.35	7.35	SELECT		9.5	no
Biannual		Temp		Biannual					25	no
Biannual		Elec.Conductivity		Biannual	243	243		800-1875	1000	no
Biannual		Chlorides		Biannual	9.7	9.7	mg/l	24-187.5	250	no
Biannual		Ammoniacal Nitorgen		Biannual	<0.2	<0.2	mg/l	0.065-0.175		no
Annual		Iron		Annual	<0.019	<0.019	ug/l		0.2	no
Annual		TON		Annual	0.107	0.107	ug/l	-	No abnormal change	no
Annual		TOC		Quarterly	5.01	5.01	mg/l			no
Annual		Cadmium		Annual	0.582	0.582	ug/l	-	0.005	no
Annual		Chromium (total)		Annual	<3	<3	ug/l	37.5	0.03	no
Annual		Copper		Annual	2.24	2.24	ug/l	1500	0.03	no
Annual		Cyanide (Total)		Annual	<0.05	<0.05	ug/l	-	0.01	no
Annual		Lead		Annual	<0.2	<0.2	ug/l	18.75	0.01	no
Annual		Mangnesium		Annual	8.69	8.69	mg/l	-	50	no
Annual		Manganese		Annual	1350	1350	ug/l	-	0.05	no
Annual		Mercury		Annual	<0.01	<0.01	ug/l	0.75	0.001	no
Annual		Nickle		Annual	16.1	16.1	ug/l	15	0.02	no
Annual		Potassium		Annual	1.39	1.39	mg/l	-	5	no
Annual		Sulphate		Annual	<2	<2	mg/l	187.5	200	no
Annual		Total Alkalinity		Annual	130	130	mg/l	-		no
Annual		Total Phosphorus		Annual	132	132	mg/l	0.09		no
Biannual	96 4D	pH		Biannual	7.77	7.77	SELECT		9.5	no
Biannual		Temp		Biannual					25	no
Biannual		Elec.Conductivity		Biannual	506	506			1000	no
Biannual		Chlorides		Biannual	15.2	15.2	mg/l		250	no
Biannual		Ammoniacal Nitorgen		Biannual	7.97	7.97	mg/l			yes
Annual		Iron		Annual	0.21	0.21	ug/l		0.2	no
Annual		TON		Annual	<0.1	<0.1	ug/l		No abnormal change	no
Annual		TOC		Quarterly	<3	<3	mg/l			no
Annual		Cadmium		Annual	<0.08	<0.08	ug/l		0.005	no
Annual		Chromium (total)		Annual	<3	<3	ug/l		0.03	no
Annual		Copper		Annual	<0.3	<0.3	ug/l		0.03	no
Annual		Cyanide (Total)		Annual	<0.05	<0.05	ug/l		0.01	no
Annual		Lead		Annual	<0.2	<0.2	ug/l		0.01	no
Annual		Mangnesium		Annual	18.2	18.2	mg/l		50	no
Annual		Manganese		Annual	276	276	ug/l		0.05	no
Annual		Mercury		Annual	<0.01	<0.01	ug/l		0.001	no
Annual		Nickle		Annual	0.682	0.682	ug/l		0.02	no
Annual		Potassium		Annual	1.99	1.99	mg/l		5	no
Annual		Sulphate		Annual	<2	<2	mg/l		200	no
Annual		Total Alkalinity		Annual	275	275	mg/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Total Phosphorus		Annual	679	679	mg/l			no
Biannual	96 5s	pH	**Meter**	Biannual	7.21	7.21	mg/l		9.5	no
Biannual		Temp	Meter	Biannual			mg/l		25	no
Biannual		Elec.Conductivity	Meter	Biannual	371.0	371.0	mg/l	800-1875	1000	no
Biannual		Chlorides	titration	Biannual	55.2	55.2	mg/l	24-187.5	250	no
Biannual		Ammoniacal Nitorgen	ISE	Quarterly	0.25	0.25	mg/l	0.065-0.175		no
Annual		Iron	ICP	Annual	101	101	ug/l		0.2	no
Annual		TON	HACH	Annual	<0.1	<0.1	ug/l	-	No abnormal change	no
Annual		TOC	TOC analyser	Quarterly	6.28	6.28	mg/l			no
Annual		Cadmium	ICP	Annual	<0.08	<0.08	ug/l	-	0.005	no
Annual		Chromium (total)	ICP	Annual	<3	<3	ug/l	37.5	0.03	no
Annual		Copper	COLORIMETRY	Annual	<0.3	<0.3	ug/l	1500	0.03	no
Annual		Cyanide (Total)	ICP	Annual	<0.05	<0.05	ug/l	-	0.01	no
Annual		Lead	ICP	Annual	<0.2	<0.2	ug/l	18.75	0.01	no
Annual		Mangnesium	ICP	Annual	8.27	8.27	mg/l	-	50	no
Annual		Manganese	ICP	Annual	5200	5200	ug/l	-	0.05	no
Annual		Mercury	ICP	Annual	<0.01	<0.01	ug/l	0.75	0.001	no
Annual		Nickle	ICP	Annual	8.99	8.99	ug/l	15	0.02	no
Annual		Potassium	ICP	Annual	1.45	1.45	mg/l	-	5	no
Annual		Sulphate	Aquakem auto analyser	Annual	<2	<2	mg/l	187.5	200	no
Annual		Total Alkalinity	icp	Annual	120	120	mg/l	-		no
Annual		Total Phosphorus	spectrophotometry apha	Annual	0.08	0.08	mg/l	0.09		no
Annual		Naphthalene	GC-MS	Annual	<1	<1	ug/l		0.5	no
Annual		Acenaphthylene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chrysene	GC-MS	Annual	<1	<1	ug/l		2	no
Annual		Fluoranthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Fluorene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Phenanthrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l		0.03	no
Annual		Bromoform	GC-MS	Annual	<1	<1	ug/l		0.1	no
Annual		Chloroform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloroethene	GC-MS	Annual			ug/l			no
Annual		Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		112 Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Hexanone	GC-MS	Annual			ug/l			no
Annual		1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene O	GC-MS	Annual	<1	<1	ug/l			no
Annual		Styrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		sec-butylbenzene	GC-MS	Annual	<1	**<1**	ug/l			no
Annual		Pentachlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobutadiene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4,6-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,4-trichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		1,3-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		1,4-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4,5-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Acenaphthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(a)anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(a)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(b)fluoranthene	GC-MS	Annual	<1	<1	ug/l		30	no
Annual		Benzo(g,h,i)perylene	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<2	<2	ug/l			no
Annual		Dibenz(a,h)anthracene	GC-MS	Annual	<1	<1	ug/l		500	no
Annual		Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diphenylamine	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isophorone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		n-Nitrosodi-n-propylamine	GC-MS	Annual	<1	<1	ug/l			no
Annual		Acetone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrahydrofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Toluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene -o	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dichlorodifluoromethane	GC-MS	Annual	<1	<1	ug/l		1	no
Annual		Ethyl Chloride/Chloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Ether/Diethyl Ether	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		Iodomethane/Methyl Iodide	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Disulphide	GC-MS	Annual	<1	<1	ug/l			no
Annual		Allyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlormethyl Cyanide/Chloroacetonitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propanenitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		MtBE	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Butanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Acrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methacrylonitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		1-Chlorobutane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,cis	GC-MS	Annual	<1	<1	ug/l			no
Annual		MIBK/4 Methyl 2 Pentanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,trans	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual	<1	<1	ug/l			no
Annual		P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		N Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dibromo-3-chloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichlorobenzene	GC-MS	Annual			ug/l			no
Annual		Mecoprop	GC-MS	Annual	<0.04		ug/l			no
Annual		Bentazone	GC-MS	Annual	<0.04		ug/l			no
Annual		Simazine	GC-MS	Annual	<0.01		ug/l			no
Biannual	96 5d	pH	**Meter**	**Biannual**	7.58	7.58	SELECT		9.5	no
Biannual		Temp	Meter	Biannual					25	no
Biannual		Elec.Conductivity	Meter	Biannual	82	82		800-1875	1000	no
Biannual		Chlorides	titration	Biannual	12.7	12.7	mg/l	24-187.5	250	no
Biannual		Ammoniacal Nitorgen	ISE	Biannual	<0.2	<0.2	mg/l	0.065-0.175		no
Annual		Iron	ICP	Annual	0.0416	0.0416	ug/l		0.2	no
Annual		TON	HACH	Annual	<0.1	<0.1	ug/l	-	No abnormal change	no
Annual		TOC	TOC analyser	Quarterly	<3		mg/l			no
Annual		Cadmium	ICP	Annual	<0.08	<0.08	ug/l	-	0.005	no
Annual		Chromium (total)	ICP	Annual	<3	<3	ug/l	37.5	0.03	no
Annual		Copper	COLORIMETRY	Annual	<0.3	<0.3	ug/l	1500	0.03	no
Annual		Cyanide (Total)	ICP	Annual	<0.05	<0.05	ug/l	-	0.01	no
Annual		Lead	ICP	Annual	<0.2	<0.2	ug/l	18.75	0.01	no
Annual		Mangnesium	ICP	Annual	29.9	29.9	mg/l	-	50	no
Annual		Manganese	ICP	Annual	13.4	13.4	ug/l	-	0.05	no
Annual		Mercury	ICP	Annual	<0.01	<0.01	ug/l	0.75	0.001	no
Annual		Nickle	ICP	Annual	<0.4	<0.4	ug/l	15	0.02	no
Annual		Potassium	ICP	Annual	1.39	1.39	mg/l	-	5	no
Annual		Sulphate	Aquakem auto analyser	Annual	<2	<2	mg/l	187.5	200	no
Annual		Total Alkalinity	icp	Annual	275	275	mg/l	-		no
Annual		Total Phosphorus	spectrophotometry apha	Annual	54	54	mg/l	0.09		no
Annual		Naphthalene	GC-MS	Annual	<1	<1	ug/l		0.5	no
Annual		Acenaphthylene	GC-MS	Annual	<1	<1	ug/l		2	no
Annual		Anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chrysene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Fluoranthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Fluorene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Pyrene	GC-MS	Annual	<1	<1	ug/l		0.03	no
Annual		Phenanthrene	GC-MS	Annual	<1	<1	ug/l		0.1	no
Annual		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromoform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloroform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloroethene	GC-MS	Annual			ug/l			no
Annual		Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		112 Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Hexanone	GC-MS	Annual			ug/l			no
Annual		1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene O	GC-MS	Annual	<1	<1	ug/l			no
Annual		Styrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		sec-butylbenzene	GC-MS	Annual	<1	**<1**	ug/l			no
Annual		Pentachlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobutadiene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4,6-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chlorophenol	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		1,2,4-trichlorobenzene	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		1,2-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,4-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4,5-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Acenaphthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(a)anthracene	GC-MS	Annual	<1	<1	ug/l		30	no
Annual		Benzo(a)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(b)fluoranthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(g,h,i)perylene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l		500	no
Annual		Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<2	<2	ug/l			no
Annual		Dibenz(a,h)anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diphenylamine	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isophorone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		n-Nitrosodi-n-propylamine	GC-MS	Annual	<1	<1	ug/l			no
Annual		Acetone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrahydrofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Toluene	GC-MS	Annual	<1	<1	ug/l		1	no
Annual		Xylene -o	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dichlorodifluoromethane	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		Ethyl Chloride/Chloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Ether/Diethyl Ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Iodomethane/Methyl Iodide	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Disulphide	GC-MS	Annual	<1	<1	ug/l			no
Annual		Allyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlormethyl Cyanide/Chloroacetonitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propanenitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		MtBE	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Butanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Acrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methacrylonitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		1-Chlorobutane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,cis	GC-MS	Annual	<1	<1	ug/l			no
Annual		MIBK/4 Methyl 2 Pentanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,trans	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual	<1	<1	ug/l			no
Annual		P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		N Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dibromo-3-chloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichlorobenzene	GC-MS	Annual			ug/l			no
Annual		Mecoprop	GC-MS	Annual	<0.04		ug/l			no
Annual		Bentazone	GC-MS	Annual	<0.04		ug/l			no
Annual		Simazine	GC-MS	Annual	<0.01		ug/l			no
Biannual	99 1S	pH	**Meter**	**Biannual**	7.42	7.42	SELECT		9.5	no
Biannual		Temp	Meter	Biannual					25	no
Biannual		Elec.Conductivity	Meter	Biannual	396	396		800-1875	1000	no
Biannual		Chlorides	titration	Biannual	14.8	14.8	mg/l	24-187.5	250	no
Biannual		Ammoniacal Nitorgen	ISE	Biannual	1.78	1.78	mg/l	0.065-0.175		no
Annual		Iron	ICP	Annual	0.0196	0.0196	ug/l		0.2	no
Annual		TON	HACH	Annual	<0.1	<0.1	ug/l	-	No abnormal change	no
Annual		TOC	TOC analyser	Quarterly	<3		mg/l			no
Annual		Cadmium	ICP	Annual	<0.08	<0.08	ug/l	-	0.005	no
Annual		Chromium (total)	ICP	Annual	<3	<3	ug/l	37.5	0.03	no
Annual		Copper	COLORIMETRY	Annual	<0.3	<0.3	ug/l	1500	0.03	no
Annual		Cyanide (Total)	ICP	Annual	<0.05	<0.05	ug/l	-	0.01	no
Annual		Lead	ICP	Annual	<0.2	<0.2	ug/l	18.75	0.01	no
Annual		Mangnesium	ICP	Annual	8.08	8.08	mg/l	-	50	no
Annual		Manganese	ICP	Annual	3570	3570	ug/l	-	0.05	no
Annual		Mercury	ICP	Annual	<0..01	<0..01	ug/l	0.75	0.001	no
Annual		Nickle	ICP	Annual	0.587	0.587	ug/l	15	0.02	no
Annual		Potassium	ICP	Annual	1.94	1.94	mg/l	-	5	no
Annual		Sulphate	Aquakem auto analyser	Annual	<2	<2	mg/l	187.5	200	no
Annual		Total Alkalinity	icp	Annual	215	215	mg/l	-		no
Annual		Total Phosphorus	spectrophotometry apha	Annual	415	415	mg/l	0.09		no
Annual		Naphthalene	GC-MS	Annual	<1	<1	ug/l		0.5	no
Annual		Acenaphthylene	GC-MS	Annual	<1	<1	ug/l		2	no
Annual		Anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chrysene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Fluoranthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Fluorene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Pyrene	GC-MS	Annual	<1	<1	ug/l		0.03	no
Annual		Phenanthrene	GC-MS	Annual	<1	<1	ug/l		0.1	no
Annual		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromoform	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Chloroform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloroethene	GC-MS	Annual			ug/l			no
Annual		Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		112 Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Hexanone	GC-MS	Annual			ug/l			no
Annual		1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene O	GC-MS	Annual	<1	<1	ug/l			no
Annual		Styrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		sec-butylbenzene	GC-MS	Annual	<1	**<1**	ug/l			no
Annual		Pentachlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobutadiene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4,6-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chlorophenol	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		1,2,4-trichlorobenzene	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		1,2-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,4-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4,5-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Acenaphthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(a)anthracene	GC-MS	Annual	<1	<1	ug/l		30	no
Annual		Benzo(a)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(b)fluoranthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(g,h,i)perylene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l		500	no
Annual		Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<2	<2	ug/l			no
Annual		Dibenz(a,h)anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diphenylamine	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isophorone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		n-Nitrosodi-n-propylamine	GC-MS	Annual	<1	<1	ug/l			no
Annual		Acetone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrahydrofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Toluene	GC-MS	Annual	<1	<1	ug/l		1	no
Annual		Xylene -o	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dichlorodifluoromethane	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		Ethyl Chloride/Chloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Ether/Diethyl Ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Iodomethane/Methyl Iodide	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Disulphide	GC-MS	Annual	<1	<1	ug/l			no
Annual		Allyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlormethyl Cyanide/Chloroacetonitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propanenitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		MtBE	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Butanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Acrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methacrylonitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		1-Chlorobutane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,cis	GC-MS	Annual	<1	<1	ug/l			no
Annual		MIBK/4 Methyl 2 Pentanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,trans	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual	<1	<1	ug/l			no
Annual		P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		N Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dibromo-3-chloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichlorobenzene	GC-MS	Annual			ug/l			no
Annual		Mecoprop	GC-MS	Annual	<0.04		ug/l			no
Annual		Bentazone	GC-MS	Annual	<0.04		ug/l			no
Annual		Simazine	GC-MS	Annual	<0.01		ug/l			no
Biannual	99 1D	pH	**Meter**	**Biannual**	7.87	7.87	SELECT		9.5	no
Biannual		Temp	Meter	Biannual					25	no
Biannual		Elec.Conductivity	Meter	Biannual	326	326		800-1875	1000	no
Biannual		Chlorides	titration	Biannual	13	13	mg/l	24-187.5	250	no
Biannual		Ammoniacal Nitorgen	ISE	Biannual	<0.2	<0.2	mg/l	0.065-0.175		no
Annual		Iron	ICP	Annual	<0.019	<0.019	ug/l		0.2	no
Annual		TON	HACH	Annual	0.123	0.123	ug/l	-	No abnormal change	no
Annual		TOC	TOC analyser	Annual	<3	<3	mg/l			no
Annual		Cadmium	ICP	Annual	<0.08	<0.08	ug/l	-	0.005	no
Annual		Chromium (total)	ICP	Annual	<3	<3	ug/l	37.5	0.03	no
Annual		Copper	COLORIMETRY	Annual	0.334	0.334	ug/l	1500	0.03	no
Annual		Cyanide (Total)	ICP	Annual	<0.05	<0.05	ug/l	-	0.01	no
Annual		Lead	ICP	Annual	<0.2	<0.2	ug/l	18.75	0.01	no
Annual		Mangnesium	ICP	Annual	10	10	mg/l	-	50	no
Annual		Manganese	ICP	Annual	11.1	11.1	ug/l	-	0.05	no
Annual		Mercury	ICP	Annual	<0.01	<0.01	ug/l	0.75	0.001	no
Annual		Nickle	ICP	Annual	<0.4	<0.4	ug/l	15	0.02	no
Annual		Potassium	ICP	Annual	1.12	1.12	mg/l	-	5	no
Annual		Sulphate	Aquakem auto analyser	Annual	<2	<2	mg/l	187.5	200	no
Annual		Total Alkalinity	icp	Annual	160	160	mg/l	-		no
Annual		Total Phosphorus	spectrophotometry apha	Annual	103	103	mg/l	0.09		no
Annual		Naphthalene	GC-MS	Annual	<1	<1	ug/l		0.5	no
Annual		Acenaphthylene	GC-MS	Annual	<1	<1	ug/l		2	no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chrysene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Fluoranthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Fluorene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Pyrene	GC-MS	Annual	<1	<1	ug/l		0.03	no
Annual		Phenanthrene	GC-MS	Annual	<1	<1	ug/l		0.1	no
Annual		Bromodichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromoform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloroform	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloroethene	GC-MS	Annual			ug/l			no
Annual		Bromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trichloromonofluoromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1-dichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		11 Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1-trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		112 Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Hexanone	GC-MS	Annual			ug/l			no
Annual		1,2-dibromoethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,1,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no
Annual		Xylene O	GC-MS	Annual	<1	<1	ug/l			no
Annual		Styrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,1,2,2-tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3,5-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,4-trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		sec-butylbenzene	GC-MS	Annual	<1	**<1**	ug/l			no
Annual		Pentachlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachlorobutadiene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4,6-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		2,4-Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chlorophenol	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		1,2,4-trichlorobenzene	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		1,2-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,3-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,4-dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4,5-Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Chloronaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylnaphthalene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Chloro-3-methylphenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		4-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no
Annual		Acenaphthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(a)anthracene	GC-MS	Annual	<1	<1	ug/l		30	no
Annual		Benzo(a)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(b)fluoranthene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzo(g,h,i)perylene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethoxy)methane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bis(2-chloroisopropyl)ether	GC-MS	Annual	<1	<1	ug/l		500	no
Annual		Bis(2-ethylhexyl)phthalate	GC-MS	Annual	<2	<2	ug/l			no
Annual		Dibenz(a,h)anthracene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		di-n-Butylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Di-n-octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Diphenylamine	GC-MS	Annual	<1	<1	ug/l			no
Annual		Hexachloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Indeno(1,2,3-c,d)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Isophorone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		n-Nitrosodi-n-propylamine	GC-MS	Annual	<1	<1	ug/l			no
Annual		Acetone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dichloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Tetrahydrofuran	GC-MS	Annual	<1	<1	ug/l			no
Annual		Toluene	GC-MS	Annual	<1	<1	ug/l		1	no
Annual		Xylene -o	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dichlorodifluoromethane	GC-MS	Annual	<1	<1	ug/l		10	no
Annual		Ethyl Chloride/Chloroethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Ether/Diethyl Ether	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year	2017		
Annual		Iodomethane/Methyl Iodide	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Disulphide	GC-MS	Annual	<1	<1	ug/l			no
Annual		Allyl Chloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Chlormethyl Cyanide/Chloroacetonitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Propanenitrile	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans-1,2 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		MtBE	GC-MS	Annual	<1	<1	ug/l			no
Annual		2,2-dichloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		cis-12 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual		2-Butanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Acrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromochloromethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methacrylonitrile	GC-MS	Annual	<1	<1	ug/l			no

oil monitoring template					Lic No:	W0002-01	Year 2017			
Annual		1-Chlorobutane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Carbon Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
Annual		Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
Annual		Methyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,cis	GC-MS	Annual	<1	<1	ug/l			no
Annual		MIBK/4 Methyl 2 Pentanone	GC-MS	Annual	<1	<1	ug/l			no
Annual		13 Dichloropropene,trans	GC-MS	Annual	<1	<1	ug/l			no
Annual		Ethyl Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
Annual		Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		Trans 14 Dichloro 2 Butene, tran	GC-MS	Annual	<1	<1	ug/l			no
Annual		P Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual		N Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2-dibromo-3-chloropropane	GC-MS	Annual	<1	<1	ug/l			no
Annual		1,2,3-trichlorobenzene	GC-MS	Annual			ug/l			no
Annual		Mecoprop	GC-MS	Annual	<0.04		ug/l			no
Annual		Bentazone	GC-MS	Annual	<0.04		ug/l			no
Annual		Simazine	GC-MS	Annual	<0.01		ug/l			no

oil monitoring template			Lic No:	W0002-01	Year 2017		
* 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.							Interim Guideline Values (IGV)
**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	
3: Soil results							
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Environmental Liabilities template	Lic No:	W0002-01	Year	2017

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	SELECT	
2	ELRA review status	SELECT	
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: W0002-01 Year 2017

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	No	n/a
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	SELECT	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	SELECT	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	SELECT	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT

Noise monitoring summary report	Lic No:	W0002-01	Year	2017

1	Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below	No
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)	SELECT
3	Does your site have a noise reduction plan	SELECT
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?	SELECT

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)?
								SELECT	SELECT		SELECT

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

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

** please explain the reason for not taking action/resolution of noise issues?
Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary	Lic No:	W0002-01	Year	2017

			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	SEAI - Large Industry Energy Network (LIEN)	no
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information		no

Table R1 Energy usage on site

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)		17966k		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (CMN)				
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

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^3yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply							
Recycled water							
Total							

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

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

Table R3 Waste Stream Summary

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

Resource Usage/Energy efficiency summary Lic No: W0002-01 Year 2017

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					

Complaints and Incidents summary template Lic No: W0002-01 Year 2017

Complaints

Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below		Additional information
	no	

Table 1 Complaints summary

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		

Total complaints open at start of reporting year		0
Total new complaints received during reporting year		0
Total complaints closed during reporting year		0
Balance of complaints end of reporting year		0

Incidents

Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below		Additional information
	SELECT	

*For information on how to report and what constitutes an incident	What is an incident

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Liklihood of reoccurence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT

Total number of incidents current year		
Total number of incidents previous year		
% reduction/ increase		

WASTE SUMMARY	Lic No:	W0002-01	Year	2017
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		

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

			Additional Information
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) If yes please enter details in table 1 below	no	
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	no	
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	no	

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)

Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted **Please enter an accurate and detailed description - which** European Waste Catalogue EWC codes	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 -
none											

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	
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	
6	Does your facility have relevant nuisance controls in place?	SELECT	
7	Do you have an odour management system in place for your facility? If no why?	SELECT	
8	Do you maintain a sludge register on site?	SELECT	

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

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	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8													

WASTE SUMMARY	Lic No:	W0002-01	Year	2017

Table 4 Environmental monitoring-landfill onl Landfill Manual-Monitoring Standards

Was meterological 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	