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

Please note an interpretation of results is still required. This should be en appropriately to fit your interpretation, if additional space is required plea template should have all cells sized appropri

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

click to access relevant guidance documents for this section

ol have an associated footnote or instructions

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

ntered in the additional information/comments boxes within the templates. Please size these boxes se include an appendix to the AER template and merge it as part of the AER PDF document. The excel ately so that all text is readable before it is converted to PDF document.

Facility Information Summary			
AER Reporting Year	2015		
Licence Register Number	W0068-03		
Name of site		Youghal L	andfill
Site Location	Fo	xhole, Yougl	hal, co.Cork
NACE Code		382	1
Class/Classes of Activity		5(c), 5(d)	, 50.1
National Grid Reference (6E, 6 N)		2100E 0	800N
			·

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.

Youghal landfill accepted waste at the facility until February 2012. Since that date only cover material (soil and stones) and road building material (suitable C&D material) has been accepted to allow for a "pre-capping" profile to be constructed on Cell 9. This work continued in 2015 and a void of 180m3 is still available whenever the management of the facility decide to fill it. A capping design is currently ongoing. The environmental performance of the facility has continued to improve by comparison with previous years. No confirmed odour complaint was registered in 2015. The gas extraction system has continued to perform well with 1 the enclosed flare burning off the gas generated. The daily attendance and gas-well leachate removal has ensured increased effective length of the gas wells and, hence, the proper functioning of the system. The VOC surveys have shown a continued improvement in the profile of Cells 6 to 9. Minor exceedences have again been measured in the perimeter gas wells but are explained by the estuarine conditions that account for naturally occuring CO2. Both Leachate and groundwater results are similar to previous years. The noise survey was compliant for the year as would be expected with the removal of the large landfill compacting plant from the site. Overall the site has been compliant with its licence.

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.

of the informa	ation is assured to meet licence requiremen
	15/03/2016
Signature	Date
(Me M) Of O	
experienced deputy)	

\neg

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria		Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass	Comments - reason for change in % mass load from previous year if applicable
					799734					load refers to
Flare Stack	Methane (CH4)	Continuous	N/A	SELECT		m3	yes	MAB	561814	difference
					466848					Annual mass
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT		m3	yes	ISO 12039:2001	873006	load refers to difference
				No 30min mean can exceed	17.98					
Flare Stack	Carbon monoxide (CO)	Continuous		the ELV		mg/Nm3	yes	ISO 12039:2001	7.54	
	Nitrogen oxides			No 30min mean can exceed	106.95					
Flare Stack	(NOx/NO2)	Annual	<150mg/Nm3	the ELV		mg/Nm3	yes	EN 14792:2005	353.34	
	Sulphur oxides				99.65					
Flare Stack	(SOx/SO2)	Annual	N/A			mg/Nm3	yes	EN 14791:2005	187.55	

AIR-summary template	Lic No:	W0068-03	Year	2015	
Continuous Monitoring					
4 Does your site carry out continuous air emissions monitoring?	Yes				
If yes please review your continuous monitoring data and report the required fields below in Table A2 and compar it to its relevant Emission Limit Value (ELV)	re				
5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	Yes				
6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes				
7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below Table A2: Summary of average emissions continuous monitoring	No				

Table A2: Summary of average emissions -continuous monitoring

Emission	Parameter/ Substance		Averaging Period	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments	
reference no:					measurement			Equipment	exceedences in		
								downtime (hours)	current		
		ELV in licence or any							reporting year		
		revision therof									
Flare Stack	PRTR	N/A	12 month	100 % of values < ELV	m3			54	0	One enclosed	flare operating on site for 2015
	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

B'	ypass	pro	toc

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

Α	IR-summary 1	template				Lic No:	W0068-03		Year	2015
	Solvent	use and manageme	nt on site							
B D	o you have a tota	l Emission Limit Value of di	irect and fugitive emis	ssions on site? if ye	s please fill out tables A4 and A5			SELECT		
		ent Management Pla ssion limit value	n Summary	<u>Solvent</u> <u>regulations</u>	Please refer to linked solver complete table 5					
	Reporting year	Total solvent input on site (kg)		emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance				
						SELECT				
-	Table AF:	Solvent Mass Balanc				SELECT				
H	Table A5.	Solvent Mass Balanc	e summary							
		(I) Inputs (kg)			(O)	Outputs (kg)				
	Solvent	(I) Inputs (kg)		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		

2015

	AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)		Lic No:	W0068-03	
				Additional information	
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections	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	Ne			

Table W1 Storm 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
SW1	upstream		рН	Quarterly	No ELV or trigger levels	N/A	7	pH units	yes	Median Vaulue for 2015
SW1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	12	degrees C	yes	Median Vaulue for 2015
SW1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	182.3	μS/cm@25oC	yes	Median Vaulue for 2015
SW1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.6	mg/L	yes	Median Vaulue for 2015
SW1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	6722	mg/L	yes	Median Vaulue for 2015. sw1 is infulenced by saline water.
SW1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	2	mg/L	yes	Median Vaulue for 2015
SW1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	143	mg/L	yes	Median Vaulue for 2015
SW1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.1	mg/L	yes	Median Vaulue for 2015
SW1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	19.8	mg/L	yes	Median Vaulue for 2015
SW1	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result
SW1	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	3.7	mg/L	ves	Annual result
SW1	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		μg/L	yes	Annual result
SW1	upstream		Iron	Annual	No ELV or trigger levels	N/A	25.2	μg/L	yes	Annual result
SW1	upstream	Lead and compounds (as Pb)	non	Annual	No ELV or trigger levels	N/A	<1	μg/L	ves	Annual result
SW1		Lead and Compounds (as PD)	Magnesium	Annual	No ELV or trigger levels	N/A	839			Annual result
SW1	upstream		-	Annual	No ELV or trigger levels			mg/L	yes	Annual result
SW1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	17.7	μg/L	yes	Annual result
SW1	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.5	μg/L	yes	Annual result. SALINE
SW1	upstream		Potassium	Annual	No ELV or trigger levels	N/A	244	mg/L	yes	WATERS Annual result. SALINE
SW1	upstream		Sulphate Total Oxidised Nitrogen	Annual	No ELV or trigger levels	N/A	1930	mg/L	yes	WATERS Annual result
SW1	upstream		(TON)			N/A	0.79	mg/L	yes	
	upstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<25	μg/L	yes	Annual result
SW1	upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.05	mg/L	yes	Annual result
SW2	downstream		рН	Quarterly	No ELV or trigger levels	N/A	7.7	pH units	yes	Median Vaulue for 2015
SW2	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	13.4	degrees C	yes	Median Vaulue for 2015
SW2	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	3461	μS/cm@25oC	yes	Median Vaulue for 2015
SW2	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	7	mg/L	yes	Median Vaulue for 2015
SW2	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	3325	mg/L	yes	Median Vaulue for 2015. SW2 is located along the mud bank and is tidal.
SW2	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	1.9	mg/L	yes	Median Vaulue for 2015
SW2	downstream		COD	Quarterly	No ELV or trigger levels	N/A	34.7	mg/L	yes	Median Vaulue for 2015
SW2	downstream		Ammonia (as N)	Quarterly			2.9	mg/L	yes	Median Vaulue for 2015
SW2	downstream		Suspended Solids	Quarterly			8.3	mg/L	yes	Median Vaulue for 2015
SW2	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result
SW2		Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	2.3			Annual result
SW2	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels		2.3	mg/L	yes	Annual result
SW2	downstream	Coomon and Compounds (as Co)	Iron	Annual	No ELV or trigger levels	N/A N/A	51.7	μg/L μg/L	yes	Annual result

-IK IVIOIIILOI	ring returns su	ımmary template-W	ATEK/WASTEWA	ATEK(SEWER)		Lic No:	W0068-03		Year	
SW2	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual resi
SW2	downstream	,	Magnesium	Annual	No ELV or trigger levels	N/A	182	mg/L	yes	Annual res
SW2			Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	434			Annual re
SW2	downstream		Manganese (as Min)	Annual	No ELV or trigger levels			μg/L	yes	Annual re
SW2	downstream	Mercury and compounds (as Hg)		Annual		N/A	<0.5	μg/L	yes	Annual re
	downstream		Potassium		No ELV or trigger levels	N/A	67.2	mg/L	yes	
SW2	downstream		Sulphate Total Oxidised Nitrogen	Annual	No ELV or trigger levels	N/A	378	mg/L	yes	Annual re
SW2	downstream		(TON)	Annual	No ELV or trigger levels	N/A	1.76	mg/L	yes	Annual re
SW2	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<25	μg/L	yes	Annual re
SW2	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.14	mg/L	yes	Annual re
SW3	downstream		PH	Quarterly	No ELV or trigger levels	N/A	7.9	pH units	yes	Median Vaulue
SW3	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	12.5	degrees C	yes	Median Vaulue
SW3	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	10136	μS/cm@25oC	ves	Median Vaulue
SW3	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	7.6	mg/L	ves	Median Vaulue
	downstream		Dissolved Oxygen			N/A	7.0	mg/L	yes	Median Vaulue
SW3				Quarterly	No ELV or trigger levels					I slocated at the
SW3	downstream	Chlorides (as CI)				N/A	8046	mg/L	yes	
	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	3.8	mg/L	yes	Median Vaulue
SW3	downstream		COD	Quarterly	No ELV or trigger levels	N/A	70.3	mg/L	yes	Median Vaulue
SW3	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.4	mg/L	yes	Median Vaulue
SW3	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	24.3	mg/L	yes	Median Vaulue
SW3	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual re
SW3	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	3.1	mg/L	yes	Annual re
SW3		Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A				Annual re
SW3	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels			μg/L	yes	Annual re
SW3	downstream		Iron	Annual	No ELV or trigger levels	N/A	52.2	μg/L	yes	Annual re
5W3	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	
SW3				Annual	No ELV or trigger levels					Annual result in EQS limit in mg/l. Elevated in consistent with years and are d
	downstream		Magnesium			N/A	252	mg/L	yes	geology of t
SW3	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	58.9	μg/L	yes	Annual re
SW3	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.5	μg/L	yes	Annual re
SW3	downstream		Potassium	Annual	No ELV or trigger levels	N/A	94.9	mg/L	yes	Annual result WATER
SW3	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	559	mg/L	yes	Annual result WATER
SW3	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	1.74	mg/L	yes	Annual re
SW3		71-1-1-1	(1011)	annual	No ELV or trigger levels	N/A	<25			Annual re
SW3	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels			μg/L	yes	Annual re
SW6	downstream	Total phosphorus		Quarterly	No ELV or trigger levels	N/A	0.32	mg/L	yes	Median Vaulue
	downstream		PH			N/A	7.7	pH units	yes	
SW6	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	13.8	degrees C	yes	Median Vaulue
SW6	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	14.6	mS/cm@25oC	yes	Median Vaulue
SW6	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	6.3	mg/L	yes	Median Vaulue
SW6	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	4946	mg/L	yes	Median Vaulue SW6 is located mud bank an
SW6	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	4	mg/L	yes	Median Vaulue
SW6	downstream		COD	Quarterly	No ELV or trigger levels	N/A	38.3	mg/L	yes	Median Vaulue
SW6	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	2	mg/L	ves	Median Vaulue
SW6			Suspended Solids	Quarterly	No ELV or trigger levels		13.7		, ,	Median Vaulue
SW6	downstream		Suspended Solids	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual re
	downstream	Chromium and compounds (as Cr)				N/A	<1	μg/L	yes	
SW6	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	1.3	mg/L	yes	Annual re
SW6	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		μg/L	yes	Annual re
				Annual	No ELV or trigger levels					

ER Monitor	ring returns su	ımmary template-WA	ATER/WASTEWA	ATER(SEWER)		Lic No:	W0068-03		Year	
SW6	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual re
										Annual res
SW6				Annual	No ELV or trigger levels					2015.EQS li 50mg/l. Elevate
3440				Aillidai	NO ELV OI trigger levels					is consistent ar
	downstream		Magnesium			N/A	699	mg/L	yes	the geology of
SW6	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	471	μg/L	yes	Annual re
SW6	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.5	μg/L	yes	Annual re
SW6	downstream		Potassium	Annual	No ELV or trigger levels	N/A	192	mg/L	yes	Annual result saline wa
SW6	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	1657	mg/L	yes	Annual result saline wa
SW6	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	0.47	mg/L	yes	Annual re
SW6	downstream	Zinc and compounds (as Zn)	, ,	Annual	No ELV or trigger levels	N/A	<25	μg/L	yes	Annual re
SW6	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.38	mg/L	yes	Annual re
GA127	onsite		pH	Quarterly	No ELV or trigger levels	N/A	7.4	pH units	yes	Median Vaulue
GA127	onsite		Temperature	Quarterly	No ELV or trigger levels	N/A	8.9			Median Vaulue
GA127	onsite		Conductivity	Quarterly	No ELV or trigger levels	N/A	927	degrees C μS/cm@25oC	yes	Median Vaulue
GA127		Chlorides (as Cl)	Conductivity	Quarterly	No ELV or trigger levels		229		yes	Median Vaulue
GA127	onsite	Chiorides (as Ci)	BOD	Quarterly	No ELV or trigger levels	N/A		mg/L	yes	Median Vaulue
GA127	onsite		COD	Quarterly	No ELV or trigger levels	N/A	<1 95	mg/L	yes	Median Vaulue
GA127	onsite			Quarterly	No ELV or trigger levels	N/A		mg/L	yes	Median Vaulue
GA127	onsite		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	66	mg/L	yes	Median Vaulue
GA127	onsite		Suspended Solids	Annual	No ELV or trigger levels	N/A	60.5	mg/L	yes	Annual re
GA127	onsite	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual re
GA127	onsite	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual re
GA127	onsite	Cadmium and compounds (as Cd)		Annual		N/A	dry	mg/L	yes	annual re
	onsite		Iron		No ELV or trigger levels	N/A	dry	μg/L	yes	
GA127	onsite	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual re
GA127	onsite		Magnesium	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual re
GA127	onsite		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual re
GA127	onsite	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual re
GA127	onsite		Potassium	Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual re
GA127	onsite		Sulphate	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual re
GA127	onsite		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual re
GA127	onsite	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual re
GA127	onsite	Total phosphorus		Annual	No ELV or trigger levels	N/A	dry	mg/L		Annual re

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)	Lic No:	W0068-03	Year	2015
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*trigger values may be agreed by the Agency outside of licence conditions

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

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

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

3	Was there any result in breach of licence requirements? If y comment section of Table W3		ief details in the	SELECT	Additional information
	Was all monitoring carried out in accordance with EPA				
	guidance and checklists for Quality of Aqueous Monitoring	External /Internal			
	Data Reported to the EPA? If no please detail what areas	Lab Quality	Assessment of		
4	require improvement in additional information box	checklist	results checklist	SELECT	

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

Emission reference	Emission o: released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring		ELV or trigger values in licence or any revision therof ^{Note 2}		Measured value		Compliant with licence	Method of analysis	Procedural	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT		

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

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

AER Monitor	ring returns su	ımmary template-W	ATER/WASTEW	ATER(SEWER	l)	Lic No:	W0068-03	Year	2015	
If yes please sur	arry out continuor	us emissions to water/sew		d compare it to	SELECT		Additional Information			
6 Did continuous r table W4 below		ELV) nent experience downtime ntract for each piece of co			SELECT SELECT					
8 below		ur during the reporting yea			SELECT			•		
Emission	Emission		ELV or trigger values in licence or any revision	Averaging	Compliance	Units of	Annual Emission for current	 Monitoring Equipment	Number of ELV exceedences in	

reporting year (kg)

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

SELECT

SELECT

SELECT

reference no:

Table W5: Abatement system bypass reporting table

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

Period

SELECT

SELECT

SELECT

SELECT

SELECT

^{*}Measures taken or proposed to reduce or limit bypass frequency

Donal / Dinalis - * - *	ation townlate					1110000 00		v				1		1
Bund/Pipeline tes	sting template				Lic No:	W0068-03		Year	201					1
Bund testing		dropdown menu cli	ick to see ontions				Additional information							
		·	•				Only one bund test is required at the	T						
		ntegrity testing on bunds and cont					site for the leachate lagoon. The							
		I bunds which failed the integrity			bunds must be listed in		lagoon is used for storage of							
the table below, please	e include all bunds outside	e the licenced testing period (mo	bile bunds and chemstore inc	luded)		Yes	leachate prior to transport to local							
2 Please provide integrit	ty testing frequency period	4				3 years	reachate phor to transport to local	t						
		erground pipelines (including store	mwater and foul). Tanks, sum	ns and containers? (contain	ers refers to "Chemstore"	0 / 00.0		Ť						
3 type units and mobile		8 P. P (,,	,		No								
4 How many bunds are o							1	Ť						
5 How many of these bu	inds have been tested with	hin the required test schedule?					1	1						
6 How many mobile bun	ids are on site?						1	Ī						
7 Are the mobile bunds i	included in the bund test s	schedule?				No		1						
8 How many of these mo	obile bunds have been tes	ted within the required test sched	dule?				1	1						
	ite are included in the inte						0	1						
10 How many of these sur						N/A		1						
	ntegrity failures in table B					•	•	-						
11 Do all sumps and cham						No		Ī						
		in a maintenance and testing pro	gramme?			N/A		1						
		ur integrity test programme?				No		Ť						
		- · · · · · · · · · · · · · · · · · · ·						_						
Tab	ble B1: Summary details of	f bund /containment structure int	tegrity test	1										
														Results
									Integrity reports					retest(i
Bund/Containment									maintained on		Integrity test failure		Scheduled date	current
structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	site?	Results of test	explanation <50 words	Corrective action taken	for retest	reportin
Leachate Lagoon	reinforced concrete	Liner covered concrete	Leachate	2000 m3	1500 m3	Structural assessment		Oct-08	Yes	Pass		SELECT	Jun-16	4
	SELECT	1	1	1		SELECT	1	1	SELECT	SELECT		SELECT		
	nply with 25% or 110% containment	t rule as detailed in your licence ince with licence requirements an	d are all structures tested in				Commentary	Т						
15 line with BS8007/EPA (nice with intende requirements an	a are an structures tested III	bunding and storage guideli	200	SELECT								
16 Are channels/transfer:		nmont sustams tostad?		punuing and storage guidel	iies	SELECT		†						
		h integrity and available volume?				SELECT		+						
17 Are channels/transfer	systems compliant in boti	n integrity and available volume?				SELECT		1						
Pineline/undergro	ound structure testing													
r ipeniie/ undergre	and attracture results	_						T						
Are you required by yo	our licence to undertake in	ntegrity testing* on underground	structures e.g. pipelines or su	mps etc ? if yes please fill o	ut table 2 below listing all									
		hich failed the integrity test and a				SELECT								
	ty testing frequency period				•	SELECT		1						
		ness testing for process and foul	pipelines (as required under y	our licence)			-	-						
				•										
Table	e B2: Summary details of p	pipeline/underground structures i	ntegrity test									_		
				Type of secondary										
				containment										
				contamment				Integrity test						
			Does this structure have			Integrity reports		failure explanation	Corrective action	Scheduled date	Results of retest(if in current			
Structure ID	Type system	Material of construction:	Secondary containment?		Type integrity testing	maintained on site?	Results of test	<50 words	taken	for retest	reporting year)			
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT			
								II.	1	1				
			mentary for additional details				1							

		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		Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER
Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template	no		
5 Is the contamination related to operations at the facility (either current and/or historic)	N/A		
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	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 assessment been carried out for the site?	yes		
10 Has a Conceptual Site Model been developed for the site?	yes		
11 Have potential receptors been identified on and off site?	yes		
12 Is there evidence that contamination is migrating offsite?	SELECT		Please enter interpretation of data here

W0068-03

Year

Lic No:

Groundwater/Soil monitoring template

Groundwater/Soil monitoring template Lic No: W0068-03 Year 2015

Table 1: Upgradient Groundwater monitoring results

Table 1: Upgra	adient Groundwater m	onitoring results								,
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++			GTV's*	SW EQS	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	MW1	pН	meter	Quarterly	8	7.35	UNITS	9.5	9.5	no
Quarterly	MW1	Temp	meter	Quarterly						no
Ossontoniku	MW1	Elec.Conductivity		Overterly	26200	155.02	uC/am		1000	
Quarterly Quarterly	MW1	Chlorides	meter	Quarterly Quarterly	26300 10411	155.82 495	uS/cm mg/l		250	no no
Quarterry	IVI VV 1	Ammoniacal		Quarterry	10411	493	mg/1		230	110
Quarterly	MW1	Nitorgen		Quarterly	9.88	3.39	mg/l		triiger value 20 mg/l	no
Quarterly	MW1	Iron		Quarterly	18	7.28			1.0mg/l	no
` .				` .					no abnormal	
Quarterly	MW1	TON		Quarterly	3.02	5.26	mg/l		change	no
									trigger value of 12	
24/8/2015	MW1	TOC		Annual	18.2	3.06	mg/l		mg/l	no
24/8/2015	MW1	Cadmium		Annual	<1	<1	ug/l		0.005mg/l	no
24/8/2015	MW1	Chromium (total)		Annual	<1	<1	ug/l		0.03mg/l	no
24/8/2015	MW1 MW1	Copper		Annual	<1	<1	ug/l		0.03mg/l	no
24/8/2015 24/8/2015	MW1 MW1	Cyanide (Total) Lead		Annual Annual	<1 683	<1 683	ug/l ug/l		0.01mg/l 0.01mg/l	no
24/8/2015	MW1	Mangnesium		Annual	6.06	6.06	mg/l	1	50 mg/l	no no
24/8/2015	MW1	Manganese		Annual	<0.5	<0.5	ug/l		0.03mg/l	no
24/8/2015	MW1	Mercury		Annual	<0.5	<0.5	ug/l		0.001mg/l	no
24/8/2015	MW1	Nickle		Annual	2	2	ug/l		0.02 mg/l	no
24/8/2015	MW1	Potassium		Annual	176	176	mg/l		5 mg/l	no
24/8/2015	MW1	Sulphate		Annual	1014	1014	mg/l		200 mg/l	no
24/8/2015	MW1	Total Alkalinity		Annual	4852	4852	mg/l			
24/8/2015	MW1	Total Phosphorus		Annual	0.33	0.33	mg/l			no
24/8/2015	MW1	Phenols		Annual	< 0.01	< 0.01	ug/l		0.5ug/l	no
24/8/2015	MW1	Naphthalene		Annual	< 0.01	< 0.01	ug/l		1.0 ug/l	no
24/0/2015										
24/8/2015	MW1	Acenaphthylene		Annual	<0.01	<0.01	ug/l		4.000//	no
24/8/2015 24/8/2015	MW1 MW1	Anthracene Chrysene		Annual Annual	<0.01 <0.01	<0.01 <0.01	ug/l ug/l		1000ug/l	no no
24/8/2015	MW1	Fluoranthene		Annual	<0.01	<0.01	ug/I ug/I			no
24/8/2015	MW1	Fluorene		Annual	<0.01	< 0.01	ug/l			no
24/8/2015	MW1	Pyrene		Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	Phenanthrene		Annual	<1	<1	ug/l			no
		Bromodichloromet								
24/8/2015	MW1	hane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Bromoform		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Chloroform		Annual	<1	<1	ug/l		13 ug/l	no
		Dibromochloromet								
24/8/2015	MW1	hane		Annual	<1	<1	ug/l			
24/8/2015	MW1	Dibromochloromet hane		Annual	-1	-1	n~/1			no
24/8/2015	MW1 MW1	Vinyl Chloride		Annual	<1 <1	<1 <1	ug/l	0.375 ug/l		no no
24/8/2015	MW1 MW1	Chloromethane		Annual	<1	<1 <1	ug/l ug/l	0.575 ug/l		no no
24/0/2013	191 99 1	Chloromethalle		Aiiiuai	<1	<1	ug/1	 		110
24/8/2015	MW1	Trichloroethene		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Bromomethane		Annual	<1	<1	ug/l	1		no
		Trichloromonofluo					Ī	i e		
24/8/2015	MW1	romethane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	11 Dichloroethene		Annual	<1	<1	ug/l	<u> </u>		no
24/8/2015	MW1	Chloromethane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	1,1-dichloroethane		Annual	<1	<1	ug/l	ļ		no
24/9/2015	MWI	11 Diablementones		A		.1	na/I			
24/8/2015	MW1	Dichloropropene		Annual	<1	<1	ug/l		l	no

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						_			
24/8/2015	MW1	1,2 dicloroethane	Annual	<1	<1	ug/l			no
24/9/2015	MWI	1,2-	A1						
24/8/2015	MW1	dichloropropane 1,1,1-	Annual	<1	<1	ug/l			no
24/8/2015	MW1	trichloroethane	Annual	-1	-21	ne/l			no
24/6/2013	IVI VV I	tricinoroetnane	Alliluai	<1	<1	ug/l			110
		112							
24/8/2015	MW1	Trichloroethane	Annual	<1	<1	ug/l			
24/0/2013	141441	Themoroculaic	Ainuai	- 1	<u></u>	ug/1			
		1,3-							
24/8/2015	MW1	dichloropropane	Annual			ug/l			no
24/8/2015	MW1	2-Hexanone	Annual	<1	<1	ug/l			no
24/8/2015	MW1	1,2-dibromoethane	Annual	<1	<1	ug/l			no
24/8/2015	MW1	Chlorobenzene	Annual	<1	<1	ug/l			no
		1,1,1,2-				I			
24/8/2015	MW1	tetrachloroethane	Annual	<1	<1	ug/l			no
24/8/2015	MW1	Ethylbenzene	Annual			ug/l		11 ug/l	no
24/8/2015	MW1	Xylene P&M	Annual	<l< td=""><td><1</td><td>ug/l</td><td></td><td></td><td>no</td></l<>	<1	ug/l			no
24/8/2015	MW1	Styrene	Annual	<1	<1	ug/l			no
		[1 .			
24/8/2015	MW1	Isopropylbenzene	Annual	<1	<1	ug/l			no
24/0/2015	MWI	1,1,2,2-	A1						
24/8/2015	MW1	tetrachloroethane	Annual	<1	<1	ug/l			no
		1,2,3-							
24/8/2015	MW1	1,2,3- trichloropropane	Annual			ug/l			no
24/8/2015	MW1	Propylbenzene	Annual	<1	<1	ug/l			no
24/8/2015	MW1	2-chlorotoluene	Annual	<1	<1	ug/l			no
24/8/2015	MW1	4-chlorotoluene	Annual	<1	<1	ug/l			
						-9-			
		1,3,5-							
24/8/2015	MW1	trimethylbenzene	Annual	<1	<1	ug/l			no
24/8/2015	MW1	Tert Butyl Benzene	Annual	<1	<1	ug/l			no
		1,2,4-							
24/8/2015	MW1	trimethylbenzene	Annual	<1	<1	ug/l			no
						1			
24/8/2015	MW1	sec-butylbenzene	Annual	< 0.01	< 0.01	ug/l			no
						1 .			
24/8/2015	MW1	Pentachlorophenol	Annual	< 0.01	< 0.01	ug/l	ļ	2.0 ug/l	no
24/0/2017	,	Total		.0.01	.0.01				L.,
24/8/2015	MW1	Tetrachloroethene	Annual	< 0.01	< 0.01	ug/l	1		no
24/8/2015	MW1	Hexachlorobenzen e	Annual	.0.01	.0.01	w - #		0.02	
24/8/2013	MW I	e Hexachlorobutadie	Annuai	< 0.01	< 0.01	ug/l	-	0.03 ug/l	no
24/8/2015	MW1	ne Hexachlorobutadie	Annual	< 0.01	< 0.01	ug/l			no
24/6/2013	IVI VV I	ne	Ailliudi	<0.01	<0.01	ug/1			no
		2,4,6-							
24/8/2015	MW1	Trichlorophenol	Annual	< 0.01	< 0.01	ug/l		200 ug/l	no
24/0/2013	141441	2,4-	Ainuai	<0.01	V0.01	ug/1		200 ug/1	no
24/8/2015	MW1	Dichlorophenol	Annual	< 0.01	< 0.01	ug/l			no
				30.01			1		
		2,4-				I			
24/8/2015	MW1	Dimethylphenol	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	2-Chlorophenol	Annual	< 0.01	< 0.01	ug/l		200 ug/l	no
									1
		1,2,4-				I			
24/8/2015	MW1	trichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
						1			
		1,2-				1			
24/8/2015	MW1	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			

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		1,3-							
24/8/2015	MW1	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
		1,4-							
24/8/2015	MW1	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
		2,4,5-							
24/8/2015	MW1	Trichlorophenol	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	2,4-Dinitrotoluene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	2,6-Dinitrotoluene	Annual	< 0.01	< 0.01	ug/l			no
		2-							
24/8/2015	MW1	Chloronaphthalene	Annual	< 0.01	< 0.01	ug/l			no
		2-							
24/8/2015	MW1	Methylnaphthalene	Annual	< 0.01	< 0.01	ug/l			no
		1							
24/8/2015	MW1	2-Methylphenol	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	2-Nitrophenol	Annual	< 0.01	< 0.01	ug/l			no
		4-Bromophenyl							
24/8/2015	MW1	Phenyl Ether	Annual	< 0.01	< 0.01	ug/l			no
		4-Chloro-3-							
24/8/2015	MW1	methylphenol	Annual	< 0.01	< 0.01	ug/l			no
		4-Chlorophenyl							
24/8/2015	MW1	phenyl ether	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	4-Nitrophenol	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	Acenaphthene	Annual	< 0.01	< 0.01	ug/l			
		Benzo(a)anthracen							
24/8/2015	MW1	e	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	Benzo(a)pyrene	Annual	< 0.01	< 0.01	ug/l			no
		Benzo(b)fluoranthe							
24/8/2015	MW1	ne	Annual	< 0.01	< 0.01	ug/l			no
		Benzo(g,h,i)peryle							
24/8/2015	MW1	ne	Annual	< 0.01	< 0.01	ug/l			no
		Benzyl Butyl							
24/8/2015	MW1	Phthalate	Annual	< 0.01	< 0.01	ug/l			no
		Bis(2-							
		chloroethoxy)meth							
24/8/2015	MW1	ane	Annual	< 0.01	< 0.01	ug/l			no
		Bis(2-							
24/8/2015	MW1	chloroethyl)ether	Annual	< 0.01	< 0.01	ug/l			no
	1	Bis(2-							
	İ	chloroisopropyl)et		1		1			
24/8/2015	MW1	her	Annual	< 0.01	< 0.01	ug/l		ļ	no
	1	Bis(2-							
		ethylhexyl)phthalat				_			
24/8/2015	MW1	e	Annual	< 0.01	< 0.01	ug/l			no
		Dibenz(a,h)anthrac				1 .			
24/8/2015	MW1	ene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	Dibenzofuran	Annual	< 0.01	< 0.01	ug/l		ļ	no
		1				_			
24/8/2015	MW1	Diethylphthalate	Annual	< 0.01	< 0.01	ug/l		ļ	no
		di-n-				_			
24/8/2015	MW1	Butylphthalate	Annual	< 0.01	< 0.01	ug/l		ļ	no
24/8/2015	MW1	Di-n-octylphthalate	Annual	< 0.01	< 0.01	ug/l			
24/8/2015	MW1	Diphenylamine	Annual	< 0.01	< 0.01	ug/l			no
		1							
24/8/2015	MW1	Hexachloroethane	Annual	< 0.01	< 0.01	ug/l			no
		Indeno(1,2,3-							
24/8/2015	MW1	c,d)pyrene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	Isophorone	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	Nitrobenzene	Annual	< 0.01	< 0.01	ug/l		10 ug/l	no

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		n-Nitrosodi-n-						
24/8/2015	MW1	propylamine	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	Acetone	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	Dichloromethane	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	Tetrahydrofuran	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	Toluene	Annual	< 0.01	< 0.01	ug/l	10 ug/l	no
24/8/2015	MW1	Xylene -o	Annual	< 0.01	< 0.01	ug/l	10 ug//l	no
		Dichlorodifluorom						İ
24/8/2015	MW1	ethane	Annual	< 0.01	< 0.01	ug/l		no
		Ethyl						İ
		Chloride/Chloroeth						
24/8/2015	MW1	ane	Annual	< 0.01	< 0.01	ug/l		no
		Ethyl						
24/8/2015	MW1	Ether/Diethyl Ether	Annual	< 0.01	< 0.01	ug/l		
		Iodomethane/Meth						
24/8/2015	MW1	yl Iodide	Annual	< 0.01	< 0.01	ug/l		no
						1 · · · ·		
24/8/2015	MW1	Carbon Disulphide	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	Allyl Chloride	Annual	< 0.01	< 0.01	ug/l		no
	1	Chlormethyl		30.02				
		Cyanide/Chloroace				1		
24/8/2015	MW1	tonitrile	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	Propanenitrile	Annual	<0.01	<0.01	ug/l		no
		Trans-1,2		10.01	10.01	-91		
24/8/2015	MW1	Dichloroethene	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	MtBE	Annual	< 0.01	< 0.01	ug/l	30 ug/l	no
				10.01	40.01	-8-		
		2,2-						
24/8/2015	MW1	dichloropropane	Annual	< 0.01	< 0.01	ug/l		no
		cis-12		10.01	10.01	-91		
24/8/2015	MW1	Dichloroethene	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	2-Butanone	Annual	< 0.01	< 0.01	ug/l		no
				10.01	10.01	-9.		
24/8/2015	MW1	Methyl Acrylate	Annual	< 0.01	< 0.01	ug/l		no
		Bromochlorometha		10.01	10.01	-9.		
24/8/2015	MW1	ne	Annual	< 0.01	< 0.01	ug/l		no
		-		10.01	10.01	-91		
24/8/2015	MW1	Methacrylonitrile	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	1-Chlorobutane	Annual	< 0.01	< 0.01	ug/l		
		Carbon		10.01	10.01	-91		
24/8/2015	MW1	Tetrachloride	Annual	< 0.01	< 0.01	ug/l		no
	1					100		
24/8/2015	MW1	Dibromomethane	Annual	< 0.01	< 0.01	ug/l		no
	1	Methyl				100		
24/8/2015	MW1	Methacrylate	Annual	< 0.01	< 0.01	ug/l		no
		13				-8-		
		Dichloropropene,ci						
24/8/2015	MW1	S S	Annual	< 0.01	< 0.01	ug/l		no
	1	1 1	***			1 -		
		MIBK/4 Methyl 2			Ì	1		
24/8/2015	MW1	Pentanone	Annual	< 0.01	< 0.01	ug/l		no
		13						
		Dichloropropene,tr				1		
24/8/2015	MW1	ans	Annual	< 0.01	< 0.01	ug/l		no
_ #6/2013			, miller	V0.01	V0.01			
24/8/2015	MW1	Ethyl Methacrylate	Annual	< 0.01	< 0.01	ug/l		no
24/8/2015	MW1	Bromobenzene	Annual	<0.01	<0.01	ug/l		no
2.00/2013	171.17.1	Diomodenzene	Amuu	\U.U1	\U.U1			
		Trans 14 Dichloro				1		
24/8/2015	MW1	2 Butene, tran	Annual	< 0.01	< 0.01	ug/l		no
2 1/0/2013	111 11 1	2 Datelle, trail	7 Minutel	\U.U1	\0.01	u _B ,1		
					Ì			
	1	D. 1. 1	Annual	< 0.01	< 0.01	no/1		[
24/8/2015	MW1							
24/8/2015	MW1	P Isopropyltoluene	Annuai	<0.01	<0.01	ug/l		no
24/8/2015 24/8/2015	MW1 MW1	N Butyl Benzene	Annual	<0.01	<0.01	ug/l		no

Groundwater	Soil monitoring templa			Lic No:	W0068-03		Year	2015	
24/8/2015	MW1	1,2-dibromo-3- chloropropane	Annual	< 0.01	< 0.01	ug/l			no
		1,2,3-							
24/8/2015	MW1	trichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW1	Mecoprop	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		
24/8/2015	MW1	Bentazone	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		no
24/8/2015	MW1	Simazine	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		no
Quarterly	MW4	pН	Quarterly	7.8	7.65	UNITS		9.5	no
Quarterly	MW4	Temp	Quarterly						no
Quarterly	MW4	Elec.Conductivity	Quarterly	616	6592	uS/cm		1000	no
Quarterly	MW4	Chlorides	Quarterly	1835	9351	mg/l		250	no
		Ammoniacal						trigger value of 80	
Quarterly	MW4	Nitorgen	Quarterly	12.3	6.74	mg/l		mg/l	no
Quarterly	MW4	Iron	Quarterly	29	4.64			1.0mg/l	no
Quarterly	MW4	TON	Quarterly	5.52	1.76	mg/l		no abnormal change	no
24/8/2015	MW4	TOC	Annual	3.3	11.79	mg/l		trigger value of 30 mg/l	no
24/8/2015	MW4	Cadmium	Annual	<1	<1	ug/l	1	0.005mg/l	no
							1		
24/8/2015	MW4	Chromium (total)	 Annual	<1	<1	ug/l	<u> </u>	0.03mg/l	no
4/8/2015	MW4	Copper	Annual	<1	<1	ug/l		0.03mg/l	no
24/8/2015	MW4	Cyanide (Total)	Annual	< 0.01	< 0.01	ug/l		0.01mg/l	no
4/8/2015	MW4	Lead	Annual	<1	<1	ug/l		0.01mg/l	no
4/8/2015	MW4	Mangnesium	Annual	14.3	14.3	mg/l		51 mg/l	no
4/8/2015	MW4	Manganese	Annual	0.063	0.063	ug/l	-	0.03mg/l	no
4/8/2015	MW4	Mercury	Annual	<0.5	<0.5	ug/l	 	0.001mg/l	no
24/8/2015	MW4 MW4	Nickle Potassium	Annual Annual	<1 2.11	<1 2.11	ug/l mg/l		0.02 mg/l 5 mg/l	no no
24/8/2015	MW4 MW4	Sulphate	Annual	2.11	2.11	mg/l	 	200 mg/l	no
4/8/2015	MW4 MW4	Total Alkalinity	Annual	273	273	mg/l	t	200 mg/r	
4/8/2015	MW4	Total Phosphorus	Annual	213	213	mg/l			no
24/8/2015	MW4	Phenols	Annual	<0.1	<0.1	ug/l		0.5ug/l	no
24/8/2015	MW4	Naphthalene	Annual	<0.01	<0.01	ug/l		1.0 ug/l	no
24/8/2015	MW4	Acenaphthylene	Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW4	Anthracene	Annual	<0.01	<0.01	ug/l	<u> </u>	1000ug/l	no
								1000049/1	
24/8/2015	MW4	Chrysene	Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW4	Fluoranthene	Annual	<0.01	<0.01	ug/l	 		no
24/8/2015	MW4	Fluorene	Annual	< 0.01	<0.01	ug/l			no
24/8/2015	MW4	Pyrene	Annual	< 0.01	< 0.01	ug/l	-		no
24/8/2015	MW4	Phenanthrene Bromodicinoromet	Annual	< 0.01	<0.01	ug/l			no
24/8/2015	MW4	hane	Annual	<1	<1	ug/l	-		no
24/8/2015	MW4	Bromoform	Annual	<1	<1	ug/l			no
24/8/2015	MW4	Chloroform	Annual	<1	<1	ug/l		12 ug/l	no
24/8/2015	MW4	hane	Annual	<1	<1	ug/l			
24/8/2015	MW4	hane	Annual	<1	<1	ug/l			no
24/8/2015	MW4	Vinyl Chloride	Annual	<1	<1	ug/l		0.375 ug/l	no
24/8/2015	MW4	Chloromethane	Annual	<1	<1	ug/l			no
24/8/2015	MW4	Trichloroethene	Annual	<1	<1	ug/l			no
24/8/2015	MW4	Bromomethane	Annual	<1	<1	ug/l			no
24/8/2015	MW4	romethane	Annual	<1	<1	ug/l			no
24/8/2015	MW4	11 Dichloroethene	Annual	<1	<1	ug/l			no
24/8/2015	MW4	Chloromethane	Annual	<1	<1	ug/l			no

a 1 .	(0.1)				v :	Winner or		17	2015	
roundwater/	Soil monitoring templa	ate	1		Lic No:	W0068-03		Year	2015	ı
24/8/2015	MW4	1,1-dichloroethane		Annual	<1	<1	ug/l			no
		11								
24/8/2015	MW4	Dichloropropene		Annual	<1	<1	ug/l			no
24/8/2015	MW4	1,2 dicloroethane		Annual	<1	<1	ug/l			no
21/0/2015	MW4			7	71	ν,	ug/1			
24/8/2015	MW4	1,2- dichloropropane		Annual	<1	<1	ug/l			no
	WW4	1,1,1-		Ailliudi	<1	<1	ug/1			no .
24/8/2015	MW4	trichloroethane		Annual	<1	<1	ug/l			no
		112								
24/8/2015	MW4	Trichloroethane		Annual	<1	<1	ug/l			
		1,3-								
24/8/2015	MW4	dichloropropane		Annual	<1	<1	ug/l			no
24/8/2015	MW4	2-Hexanone		Annual			ug/l	-		no
24/8/2015	MW4	1,2-dibromoethane		Annual	<1	<1	ug/l			no
24/8/2015	MW4	Chlorobenzene		Annual	<1	<1	ug/l			no
		1,1,1,2-								
24/8/2015	MW4	tetrachloroethane		Annual	<1	<1	ug/l		40	no
24/8/2015 24/8/2015	MW4 MW4	Ethylbenzene Xylene P&M		Annual Annual	<1	<1	ug/l ug/l		10 ug/l	no no
24/8/2015	MW4	Styrene		Annual	<1	<1	ug/l			no
24/8/2015	24374	Toomsonvilhongono		Ammod	á	.1	no/I			
24/8/2015	MW4	Isopropylbenzene		Annual	<1	<1	ug/l			no
		1,1,2,2-								
24/8/2015	MW4	tetrachloroethane		Annual	<1	<1	ug/l			no
		1,2,3-								
24/8/2015 24/8/2015	MW4 MW4	trichloropropane Propylbenzene		Annual Annual	<1	<1	ug/l ug/l			no no
24/8/2015	MW4	2-chlorotoluene		Annual	<1	<1	ug/l			no
24/8/2015	MW4	4-chlorotoluene		Annual	<1	<1	ug/l			
		1,3,5-								
24/8/2015	MW4	trimethylbenzene		Annual	<1	<1	ug/l			no
24/8/2015	MW4	Tert Butyl Benzene		Annual	<1	<1	ug/l			no
_ 1.0.2013	144 AA -4				<u></u>	×1	~5/1	<u> </u>		
24/8/2015	MW4	1,2,4- trimethylbenzene		Annual	~1	_1	ne/l			no
				Amiliai	<1	<1	ug/l			no
24/8/2015	MW4	sec-butylbenzene		Annual	<1	<1	ug/l	ļ		no
24/8/2015	MW4	Pentachlorophenol		Annual	< 0.01	< 0.01	ug/l		2.0 ug/l	no
24/9/2017	2004	Total delicated		A1	0.01	0.01				
24/8/2015	MW4	Tetrachloroethene Hexachlorobenzen	+	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	e		Annual	< 0.01	< 0.01	ug/l		0.03 ug/l	no
24/8/2015	MW4	Hexachlorobutadie ne		Annual	< 0.01	< 0.01	ug/l			no
0. 2013	144 AA -4				\U.01	\J.01	ug/1			
24/8/2015	MW4	2,4,6- Trichlorophenol		Annual	< 0.01	< 0.01	ug/l		200 ug/l	no
2./0/2013	171 77	2,4-		Amuai	\0.01	V0.01	ug/1		200 ug/1	
24/8/2015	MW4	Dichlorophenol		Annual	< 0.01	< 0.01	ug/l			no
		2,4-								
24/8/2015	MW4	Dimethylphenol		Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	2-Chlorophenol		Annual	< 0.01	< 0.01	ug/l	1	200 ug/l	no

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		1,2,4-							
24/8/2015	MW4	trichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
		1,2-							
24/8/2015	MW4	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			
24/8/2013	MW4	diciiorobenzene	Aililuai	<0.01	<0.01	ug/1			
		1,3-							
24/8/2015	MW4	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
21/0/2013	11117	diemoroocinciic	7 111111111	X0.01	V0.01	ug/1			10
		1,4-							
24/8/2015	MW4	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
			İ			Ü			
		2,4,5-							
24/8/2015	MW4	Trichlorophenol	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	2,4-Dinitrotoluene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	2,6-Dinitrotoluene	Annual	< 0.01	< 0.01	ug/l			no
						1			
		2-							
24/8/2015	MW4	Chloronaphthalene	Annual	< 0.01	< 0.01	ug/l	ļ		no
						1			
24/8/2015	20074	2- Mathyla anhthalana	Annual	-0.01	-0.01	no/I			
24/8/2015	MW4	Methylnaphthalene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	2-Methylphenol	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4 MW4	2-Nitrophenol	Annual	<0.01	<0.01	ug/I ug/I	1		no no
2 1/0/2013	191 99 4	4-Bromophenyl	ramual	<0.01	V0.01	ug/1			
24/8/2015	MW4	Phenyl Ether	Annual	< 0.01	< 0.01	ug/l			no
	.,,,,,	4-Chloro-3-	7 11111111	-0.01	-U.U1	-6.	1		
24/8/2015	MW4	methylphenol	Annual	< 0.01	< 0.01	ug/l			no
	1	4-Chlorophenyl	****			,			
24/8/2015	MW4	phenyl ether	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	4-Nitrophenol	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	Acenaphthene	Annual	< 0.01	< 0.01	ug/l			
		Benzo(a)anthracen							
24/8/2015	MW4	e	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	Benzo(a)pyrene	Annual	< 0.01	< 0.01	ug/l			no
	l	Benzo(b)fluoranthe				1			
24/8/2015	MW4	ne	Annual	< 0.01	< 0.01	ug/l			no
24/0/2011		Benzo(g,h,i)peryle							
24/8/2015	MW4	ne Dominal Postal	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	3.637.4	Benzyl Butyl Phthalate	A	d0.01	-0.01	n~/1			no
24/0/2013	MW4	Phthalate Bis(2-	Annual	< 0.01	< 0.01	ug/l	1		no
		chloroethoxy)meth							
24/8/2015	MW4	ane	Annual	< 0.01	< 0.01	ug/l			no
2 1/ 5/ 2013			ramuu	-0.01	-U.U1		<u> </u>		
		Bis(2-				1			
24/8/2015	MW4	chloroethyl)ether	Annual	< 0.01	< 0.01	ug/l			no
	1	Bis(2-			***	1			
		chloroisopropyl)et							
24/8/2015	MW4	her	Annual	< 0.01	< 0.01	ug/l			no
		Bis(2-							
		ethylhexyl)phthalat				1			
24/8/2015	MW4	e	Annual	< 0.01	< 0.01	ug/l			no
		Dibenz(a,h)anthrac							
24/8/2015	MW4	ene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	Dibenzofuran	Annual	< 0.01	< 0.01	ug/l			no
	l	1				1			
24/8/2015	MW4	Diethylphthalate	Annual	< 0.01	< 0.01	ug/l			no
24/0/2015	,	di-n-				4			
24/8/2015	MW4	Butylphthalate	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW4	Di-n-octylphthalate	A	< 0.01	< 0.01	n~/1			
24/8/2015	MW4 MW4	Di-n-octylphthalate Diphenylamine	Annual Annual	<0.01 <0.01	<0.01	ug/l ug/l			no
24/0/2013	MW4	Diphenylanine	Annual	<0.01	<0.01	ug/1	l	l	110

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24/8/2015 MW4 Hexachloroethane Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 c,d)pyrene Annual <0.01 <0.01 ug/l	no
	no
24/8/2015 MW4 Nitrobenzene Annual <0.01 <0.01 ug/l 10 ug/l	no
n-Nitrosodi-n- 24/8/2015 MW4 propylamine Annual <0.01 <0.01 ug/1	no
24/8/2015 MW4 Acetone Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 Dichloromethane Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 Tetrahydrofuran Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 Toluene Annual <0.01 <0.01 ug/l 10 ug/l	no
24/8/2015 MW4 Xylene -o Annual <0.01 <0.01 ug/l 11 ug/l	no
Dichlorodifluorom	
24/8/2015 MW4 ethane Annual <0.01 <0.01 ug/l	no
Ethyl Ethyl	
Chloride/Chloroeth	
24/8/2015 MW4 ane Annual <0.01 <0.01 ug/l	no
Ethyl	1
24/8/2015 MW4 Ether/Diethyl Ether Annual <0.01 <0.01 ug/l	
INVA LanceDecay Lance IodomethaneMeth	+
24/8/2015 MW4 yl fodide Annual <0.01 <0.01 ug/l	no
200 200 Miller 91 Marie Ammun SUU1 SUU1 ug/1	10
24/9/2015 MW/4 Corbon Diculabida Annual 40.01 40.01 40.01	no
24/8/2015 MW4 Carbon Disulphide Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 Allyl Chloride Annual <0.01 <0.01 ug/l	no
Chlormethyl	1
Cyanide/Chloroace	İ
24/8/2015 MW4 tonitrile Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 Propanenitrile Annual <0.01 <0.01 ug/l	no
Trans-1,2	
24/8/2015 MW4 Dichloroethene Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 MtBE Annual <0.01 <0.01 ug/l 30 ug/l	no
2,2-	1
24/8/2015 MW4 dichloropropane Annual <0.01 <0.01 ug/l	no
cis-12	
24/8/2015 MW4 Dichloroethene Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 2-Butanone Annual 0.01 0.01 ug/l	no
1,1111111111111111111111111111111111111	
24/8/2015 MW4 Methyl Acrylate Annual <0.01 <0.01 ug/l	no
246/2013 MW4 Neury Actylate Aminai (20.01 (20.01 ug/l	10
	no
24/8/2015 MW4 ne Annual <0.01 <0.01 ug/l	no
August Au	[
24/8/2015 MW4 Methacrylonitrile Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 1-Chlorobutane Annual <0.01 <0.01 ug/l	
Carbon	
24/8/2015 MW4 Tetrachloride Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 Dibromomethane Annual <0.01 <0.01 ug/l	no
Methyl	
24/8/2015 MW4 Methacrylate Annual <0.01 <0.01 ug/l	no
13	
	1
Dichloropropene,ci	
Dichloropropene,ci	no
Dichloropropene,ci	no
24/8/2015 MW4 s Annual <0.01 <0.01 ug/l	no
24/8/2015 MW4 s Annual <0.01 <0.01 ug/l MIBK/4 Methyl 2	
24/8/2015 MW4 s Annual <0.01 <0.01 ug/l MIBK/4 Methyl 2 24/8/2015 MW4 Pentanone Annual <0.01 <0.01 ug/l	по
24/8/2015 MW4 s Annual <0.01 <0.01 ug/l 24/8/2015 MW4 MIBK/4 Methyl 2 Pentanone Annual <0.01	
24/8/2015 MW4 s Annual <0.01 <0.01 ug/l 24/8/2015 MW4 MIBK/4 Methyl 2 Pentanone Annual <0.01	no
24/8/2015 MW4 s Annual <0.01 <0.01 ug/l 24/8/2015 MW4 MIBK/4 Methyl 2 Pentanone Annual <0.01	
24/8/2015 MW4 s Annual <0.01 <0.01 ug/l 24/8/2015 MW4 MIBK/4 Methyl 2 Pentanone Annual <0.01	no no
24/8/2015 MW4 s Annual <0.01 <0.01 ug/l 24/8/2015 MW4 Pentanone Annual <0.01	no

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24/8/2015	MW4	Trans 14 Dichloro 2 Butene, tran	Annual	< 0.01	<0.01	ug/l			no
24/8/2015	MW4	P Isopropyltoluene	Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW4	N Butyl Benzene	Annual	< 0.01	<0.01	ug/l			no
24/8/2015	MW4	1,2-dibromo-3- chloropropane	Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW4	1,2,3- trichlorobenzene	Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW4	Mecoprop	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		
24/8/2015	MW4	Bentazone	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		no
24/8/2015	MW4	Simazine	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		no

Groundwater	Soil monitoring templa	te			Lic No:	W0068-03		Year	2015	
	ngradient Groundwater									
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly	MW7	pH	Methodology	Quarterly	7.2.	6.93	UNITS	GIVS.	9.5	no
Quarterly	MW7	Temp		Quarterly	1.2	0.93	UNIIS		3.3	no
Quarterry	,	remp		Quarterry						110
Quarterly	MW7	Elec.Conductivity		Quarterly	3.87	2.82	uS/cm		1000	no
Quarterly	MW7	Chlorides		Quarterly	431	242	mg/l		250	no
		Ammoniacal							Trigger value of 7	
Quarterly	MW7	Nitorgen		Quarterly	216	176	mg/l		g/l	no
Quarterly	MW7	Iron		Quarterly	89	47.54			1.0mg/l	no
Quarterly	MW7	TON		Quarterly	<0.2				no abnormal	
Quarterly	MW/	ION		Quarterly	<0.2	<0.1	mg/l	-	change trigger value of 7	no
24/8/2015	MW7	TOC		Annual	88.9	49.53	mg/l		mg/l	no
24/8/2015	MW7	Cadmium		Annual	<1	<1	ug/l		0.005mg/l	no
24/8/2015	MW7	Chromium (total)		Annual	3	3	ug/l		0.03mg/l	no
24/8/2015	MW7	Copper		Annual	1.9	1.9	ug/l		0.03mg/l	no
24/8/2015	MW7	Cyanide (Total)		Annual	1.9	1.9	ug/l		0.01mg/l	no
24/8/2015 24/8/2015	MW7 MW7	Lead Mangnesium		Annual Annual	3.28 56.7	3.28 56.7	ug/l		0.01mg/l 51 mg/l	no no
24/8/2015	MW7	Manganese		Annual	3.28	3.28	mg/l ug/l	-	0.03mg/l	no
24/8/2015	MW7	Mercury		Annual	<0.5	<0.5	ug/l		0.001mg/l	no
24/8/2015	MW7	Nickle		Annual	11	11	ug/l		0.02 mg/l	no
24/8/2015	MW7	Potassium		Annual	114	114	mg/l		5 mg/l	no
24/8/2015	MW7	Sulphate		Annual	< 0.5	< 0.5	mg/l		200 mg/l	no
24/8/2015	MW7	Total Alkalinity		Annual	1582	1582	mg/l			
24/8/2015	MW7	Total Phosphorus		Annual	nr	nr	mg/l			no
24/8/2015	MW7	Phenols		Annual	< 0.1	< 0.1	ug/l		0.5ug/l	no
24/8/2015	MW7	Naphthalene		Annual	< 0.01	< 0.01	ug/l		1.0 ug/l	no
24/8/2015	MW7	A		A1	0.01	< 0.01	/1			
24/8/2015	MW7	Acenaphthylene Anthracene		Annual Annual	<0.01 <0.01	<0.01	ug/l ug/l		1000ug/l	no no
24/8/2015	MW7	Chrysene		Annual	<0.01	<0.01	ug/l		1000ug/1	no
24/8/2015	MW7	Fluoranthene		Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Fluorene		Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Pyrene		Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Phenanthrene	•	Annual	< 0.01	< 0.01	ug/l			no
		Bromodichloromet								
24/8/2015 24/8/2015	MW7 MW7	hane		Annual	<1	<1	ug/l	-		no
24/8/2015	MW7	Bromoform Chloroform		Annual Annual	<1	<1 <1	ug/l ug/l	 	12 ug/l	no no
24/0/2013	141 44 /	Dibromochloromet		Annuai	<u></u>	<u></u>	ug/1	 	12 dg/1	
24/8/2015	MW7	hane Dibromochloromet		Annual	<1	<1	ug/l			
24/8/2015	MW7	hane		Annual	<1	<1	ug/l	<u> </u>	<u> </u>	no
24/8/2015	MW7	Vinyl Chloride		Annual	<1	<1	ug/l	0.375 ug/l		no
24/8/2015	MW7	Chloromethane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Trichloroethene		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Bromomethane		Annual	<1	<1	ug/l	1		no
24/8/2015	MW7	Trichloromonofluo romethane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	11 Dichloroethene		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Chloromethane		Annual	<1	<1	ug/l	İ		no
24/8/2015	MW7	1,1-dichloroethane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	11 Dichloropropene		Annual	<1	<1	ug/l			no
	1									1

roundwater/	Soil monitoring temp	alata		Lic No:	W0068-03		Year	20	15
round water/	son monitoring temp	l l		Lie No.	11 0000-03	T	Tean	20	15
24/8/2015	MW7	1,2 dicloroethane	Annual	<1	<1	ug/l			no
							†		
		1,2-							
24/8/2015	MW7	dichloropropane	Annual	<1	<1	ug/l			no
		1,1,1-							
24/8/2015	MW7	trichloroethane	Annual	<1	<1	ug/l			no
		112							
24/8/2015	MW7	Trichloroethane	Annual	<1	<1	ug/l			
		1,3-							
24/8/2015	MW7	dichloropropane	Annual	<1	<1	ug/l			no
24/8/2015	MW7	2-Hexanone	Annual			ug/l			no
24/0/2015		1.25							
24/8/2015	MW7	1,2-dibromoethane	Annual	<1	<1	ug/l			no
24/8/2015	MW7	Chlorobenzene	Annual	<1	<1	ug/l	<u> </u>		no
		1112			1				
24/8/2015	MW7	1,1,1,2- tetrachloroethane	Appuo ¹		-1	ng/1			700
24/8/2015	MW7	Ethylbenzene	Annual Annual	<1 <1	<1 <1	ug/l ug/l	+	10 ug/l	no no
24/8/2015	MW7	Xylene P&M	Annual	<1	<1		 	TO ug/T	no
24/8/2015	MW7	Styrene	Annual	<1	<1	ug/l ug/l	+		no
27/0/2013	1V1 VV /	Stylene	Ainiudl	<1	<1	ug/1	+		no no
24/8/2015	MW7	Isopropylbenzene	Annual	<1	<1	ug/l			no
, 0, 2015	2-117/	- эоргорую списне 	7 timudi	<u></u>	<u></u>	35/1	 		
		1,1,2,2-							
24/8/2015	MW7	tetrachloroethane	Annual	<1	<1	ug/l			no
				5.4	**	-9.	t		
		1,2,3-							
24/8/2015	MW7	trichloropropane	Annual	<1	<1	ug/l			no
24/8/2015	MW7	Propylbenzene	Annual			ug/l			no
24/8/2015	MW7	2-chlorotoluene	Annual	<1	<1	ug/l			no
24/8/2015	MW7	4-chlorotoluene	Annual	<1	<1	ug/l			
		1,3,5-							
24/8/2015	MW7	trimethylbenzene	Annual	<1	<1	ug/l			no
24/8/2015	MW7	Tert Butyl Benzene	Annual	<1	<1	ug/l			no
		1,2,4-							
24/8/2015	MW7	trimethylbenzene	Annual	<1	<1	ug/l			no
24/8/2015	MW7	sec-butylbenzene	Annual	<1	<1	ug/l			no
				<u> </u>					
24/8/2015	MW7	Pentachlorophenol	Annual	< 0.01	< 0.01	ug/l		2.0 ug/l	no
							I		
24/8/2015	MW7	Tetrachloroethene	Annual	< 0.01	< 0.01	ug/l	 		no
		Hexachlorobenzen		Ī					
24/8/2015	MW7	e	Annual	< 0.01	< 0.01	ug/l	 	0.03 ug/l	no
24/0/2015		Hexachlorobutadie			1				
24/8/2015	MW7	ne	Annual	< 0.01	< 0.01	ug/l	+		no
		246							
24/0/2015		2,4,6-	1					200 "	
24/8/2015	MW7	Trichlorophenol	Annual	< 0.01	< 0.01	ug/l	 	200 ug/l	no
24/9/2015	MW7	2,4-	A manus ¹	-0.01	-0.01	na/I			
24/8/2015	MW7	Dichlorophenol	Annual	< 0.01	< 0.01	ug/l	 		no
		2.4			1				
24/8/2015	MW7	2,4- Dimethylphenol	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	2-Chlorophenol						200 ug/l	
24/0/2013	IVI VV /	2-Cinorophenoi	Annual	< 0.01	< 0.01	ug/l	 	ZUU ug/l	no
		1,2,4-							
24/8/2015	MW7	1,2,4- trichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
2 ., 0/2013	141 14 /	a.c.moroocuzene	rimudi	V0.01	<0.01	ug/1	 		
		1,2-							
24/8/2015	MW7	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			

According Acco										
24-2015 MN7 debleocence Annual -0.01	oundwater/S	Soil monitoring temp	olate		Lic No:	W0068-03		Year	2015	
24-2015 MN7 debleocence Annual -0.01										
1.4										
248/2015 MW7 2.45 Marcolamore Annual -0.01 -0.01 ugl 20	24/8/2015	MW7	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
248/2015 MW7 2.45 Marcolamore Annual -0.01 -0.01 ugl 20										
24,5015 MW7 2,45 Mwore 2,4										
2482015 MW7 Triskforesproof Annual -0.01 -0.04 ug1 0.0	24/8/2015	MW7	dichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
2482015 MW7 Triskforesproof Annual -0.01 -0.04 ug1 0.0										
2482015 MW7 2,4-Diminoshoror Annual -0.01 -0.01 ug1 -0.0			2,4,5-							
2482015 MW7 2,4-Diminoshoror Annual -0.01 -0.01 ug1 -0.0	24/8/2015	MW7		Annual	< 0.01	< 0.01	ug/l			no
2442015 MW7 2,6 Dairenobance										
2442015 MW7 2,6 Dairerochoree	24/8/2015	MW7	2.4-Dinitrotoluene	Annual	<0.01	<0.01	ng/l			no
248-2015 MW7 Chromoglabilation Annual -0.01 -0.01 ug1 -0.01 -0.01 -0.01 ug1 -0.01					10.01	50.01	-8-			
248-2015 MW7 Chromoglabilation Annual -0.01 -0.01 ug1 -0.01 -0.01 -0.01 ug1 -0.01	24/8/2015	MW7	2 6-Dinitrotoluene	Annual	<0.01	<0.01	no/l			no
248-2015 MW7 Colorosaphthalane	0.00.2015	111117	2,0 Dimitotolicie	7 11111411	V0.01	V0.01	ug/1			110
248-2015 MW7 Colorosaphthalate			2							
248-2015 MNY	24/8/2015	MW7		Appuel	-0.01	a0.01	ng/l			no
248-2015 MV7 Abelyhiphinhele Annual -0.01 -0.01 ug1 0.0	24/6/2013	IVI VV /	Chioronaphulaiene	Aliliuai	<0.01	<0.01	ug/1			IIO
248-2015 MV7 Abelyhiphinhele Annual -0.01 -0.01 ug1 0.0										
248/2015 MW7 2-Methylphonol Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 2-Ntreyheord Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 4-Chron-plenyl Phonyl Eiber Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 4-Chron-plenyl Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Phonyl eiber Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Phonyl eiber Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Renolaphrone Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Debylphthalae Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Debylphthalae Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Debylphthalae Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Debylphthalae Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Debylphthalae Annual -0.01 -0.01 ug1 -0.00 -248/2015 MW7 Debylphthalae Annual -0.01 -0.01 ug1 -0.00 -248/2015	1/0/2017						_	1		İ
248/2015 MW7	24/8/2015	MW7	Methylnaphthalene	Annual	< 0.01	< 0.01	ug/l			no
248/2015 MW7			1					1		İ
Annual A										
248/2015 MW7	24/8/2015	MW7	2-Nitrophenol	Annual	< 0.01	< 0.01	ug/l			no
Annual A			4-Bromophenyl							
Action Action Action Annual A	24/8/2015	MW7		Annual	< 0.01	< 0.01	ug/l	<u> </u>	<u> </u>	no
4-Chicropherdy Annual -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0			4-Chloro-3-							
4-Chicropherdy Annual -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0	24/8/2015	MW7	methylphenol	Annual	< 0.01	< 0.01	ug/l	1		no
248/2015 MW7 plenylether Annual -0.01 -0.01 ug1										
2482/015 MW7	24/8/2015	MW7		Annual	< 0.01	< 0.01	ug/l			no
Associate Asso										
Best/Sephistrates			Acenaphthene							
248/2015 MV7 e					10.01	50.01	-8-			
248/2015 MW7 Benzo(a)pyrene Annual -0.01 -0.01 ug/1	24/8/2015	MW7		Annual	<0.01	<0.01	no/l			no
Annual A								-		
Annual A	24/6/2013	IVI VV /		Ailiuai	<0.01	<0.01	ug/1			no
	24/9/2015	MW7		A manual	-0.01	-0.01	na/1			
Annual A	24/6/2013	IVI VV /		Aliliuai	<0.01	<0.01	ug/1			IIO
Annual A	1/0/2015									
24/8/2015 MW7 Pathalate Annual <0.01 <0.01 ug/l	24/8/2015	MW/		Annual	< 0.01	< 0.01	ug/I			no
Bis(2- chlorosthoxymeth ane										
Color	24/8/2015	MW'/		Annual	< 0.01	< 0.01	ug/l			no
Annual A										
Bis(2- chloroethylpether Annual <0.01 <0.01 ug/1										
Annual Color Col	24/8/2015	MW7	ane	Annual	< 0.01	< 0.01	ug/l			no
Annual Color Col										
Bis(2										
Chloroisopropyl)et Her H	24/8/2015	MW7		Annual	< 0.01	< 0.01	ug/l			no
Chloroisopropyl)et Her H			Bis(2-							
Annual A								1		İ
Bis(2- ethylhexyl)phthalate	24/8/2015	MW7		Annual	< 0.01	< 0.01	ug/l	1		no
Column							_			
24/8/2015 MW7 e										
Dibenz(a,h)anthrac ene	24/8/2015	MW7		Annual	< 0.01	< 0.01	ug/l			no
24/8/2015 MW7 ene Annual <0.01							1	1	İ	İ
24/8/2015 MW7 Dibenzofuran Annual <0.01	24/8/2015	MW7		Annual	< 0.01	< 0.01	ug/l			no
24/8/2015 MW7 Diethylphthalate Annual <0.01 <0.01 ug/l no								-		
24/8/2015 MW7 Butylphthalate Annual <0.01 <0.01 ug/l no					-0.01	-0.01	-6.	1	 	<u> </u>
24/8/2015 MW7 Butylphthalate Annual <0.01 <0.01 ug/l no	24/8/2015	MW7	Diethylphthalate	Annual	<0.01	<0.01	ng/l			no
24/8/2015 MW7 Butylphthalate Annual <0.01 <0.01 ug/1 no 24/8/2015 MW7 Di-n-octylphthalate Annual <0.01	0/2013	171 VV /		Aiiiuai	\U.U1	\U.U1	ug/1	-		
24/8/2015 MW7 Di-n-octylphthalate	24/9/2015	MX17		A	-0.01	-0.01	n~/l	1		no
24/8/2015 MW7 Diphenylamine Annual <0.01 <0.01 ug/l no 24/8/2015 MW7 Hexachloroethane Annual <0.01	∠+/0/∠UID	IVI W /	ьигугрипагате	Annuai	< 0.01	<0.01	ug/1	1	1	110
24/8/2015 MW7 Diphenylamine Annual <0.01 <0.01 ug/l no 24/8/2015 MW7 Hexachloroethane Annual <0.01	1/0/2015	MWZ	Di a constatatatata	A *	0.01	0.01				
24/8/2015 MW7 Hexachloroethane Annual <0.01 <0.01 ug/l no										
Indeno(1,2,3- 24/8/2015 MW7 C,d)pyrene	24/8/2015	MW7	Diphenylamine	Annual	< 0.01	< 0.01	ug/l			no
Indeno(1,2,3- 24/8/2015 MW7 C,d)pyrene			1							
24/8/2015 MW7 c,d)pyrene Annual <0.01 <0.01 ug/l no 24/8/2015 MW7 Isophorone Annual <0.01	24/8/2015	MW7		Annual	< 0.01	< 0.01	ug/l			no
24/8/2015 MW7 Isophorone Annual <0.01 <0.01 ug/1 no	T							_		<u> </u>
24/8/2015 MW7 Nitrobenzene Annual <0.01 <0.01 ug/l 10 ug/l no										
	24/8/2015	MW7	Nitrobenzene	Annual	< 0.01	< 0.01	ug/l		10 ug/l	no

Cuanadwaten	Soil monitoring temp	aloto		Lic No:	W0068-03		Year	2015	
Jroundwater/	son monitoring tem		T	LIC NO.	W 0008-03	1	1 eai	2013	ı
24/9/2015	MW7	n-Nitrosodi-n-	Ammod	-0.01	-0.01	na/1			
24/8/2015	MW7	propylamine	Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Acetone	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Dichloromethane	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Tetrahydrofuran	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Toluene	Annual	< 0.01	< 0.01	ug/l		10 ug/l	no
24/8/2015	MW7	Xylene -o	Annual	< 0.01	< 0.01	ug/l		10 ug//l	no
		Dichlorodifluorom							
24/8/2015	MW7	ethane	Annual	< 0.01	< 0.01	ug/l			no
		Ethyl					1		
		Chloride/Chloroeth							
24/8/2015	MW7	ane	Annual	< 0.01	< 0.01	ug/l			no
24/6/2013	1V1 VV /	anc	Ailiuai	<0.01	<0.01	ug/1			no
		Ethyl							
24/8/2015	MW7	Ether/Diethyl Ether	Annual	< 0.01	< 0.01	ug/l			
		Iodomethane/Meth							
24/8/2015	MW7	yl Iodide	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Carbon Disulphide	Annual	< 0.01	< 0.01	ug/l		1	no
24/8/2015	MW7	Allyl Chloride	Annual	< 0.01	< 0.01	ug/l	İ	1	no
		Chlormethyl	***				i e		
		Cyanide/Chloroace		I				İ	
24/8/2015	MW7	tonitrile	Annual	< 0.01	< 0.01	ug/l		İ	no
24/8/2015	MW7	Propanenitrile	Annual	<0.01	<0.01	ug/1	 	+	no
24/8/2015	MW/		Annuai	< 0.01	< 0.01	ug/1			no
		Trans-1,2							
24/8/2015	MW7	Dichloroethene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	MtBE	Annual	< 0.01	< 0.01	ug/l		30 ug/l	no
		2,2-							
24/8/2015	MW7	dichloropropane	Annual	< 0.01	< 0.01	ug/l			no
		cis-12							
24/8/2015	MW7	Dichloroethene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	2-Butanone	Annual	< 0.01	< 0.01	ug/l			no
							1		
24/8/2015	MW7	Methyl Acrylate	Annual	< 0.01	< 0.01	ug/l			no
21/0/2013	111117	Bromochlorometha	7 111111111	VO.01	₹0.01	ug.			110
24/8/2015	MW7		Ammol	-0.01	-0.01	na/1			no
24/6/2013	1V1 VV /	ne	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Methacrylonitrile	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	1-Chlorobutane	Annual	< 0.01	< 0.01	ug/l	ļ	1	
		Carbon			1			1	
24/8/2015	MW7	Tetrachloride	Annual	< 0.01	< 0.01	ug/l	<u> </u>		no
24/8/2015	MW7	Dibromomethane	Annual	< 0.01	< 0.01	ug/l		İ	no
		Methyl							
24/8/2015	MW7	Methacrylate	Annual	< 0.01	< 0.01	ug/l		İ	no
		13		1	1	T J	İ	1	
		Dichloropropene,ci		I				İ	
24/8/2015	MW7	S S	Annual	< 0.01	< 0.01	ug/l		İ	no
0. 2013		,		NO.01	NO.01	ug.	1	+	
		MIBK/4 Methyl 2		I				İ	
24/0/2015	1007		A1	0.01	0.01	· · · /1		İ	L
24/8/2015	MW7	Pentanone	Annual	< 0.01	< 0.01	ug/l	!	4	no
		13						1	
		Dichloropropene,tr			1			1	
24/8/2015	MW7	ans	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Ethyl Methacrylate	Annual	< 0.01	< 0.01	ug/l	<u></u>	<u> </u>	no
24/8/2015	MW7	Bromobenzene	Annual	< 0.01	< 0.01	ug/l			no
		Trans 14 Dichloro						1	
24/8/2015	MW7	2 Butene, tran	Annual	< 0.01	< 0.01	ug/l		İ	no
, 0, 2013		2 Datone, train		NO.01	NO.01	ug.	1	+	
				I				İ	
		D Ioonnon-te-t	A •	< 0.01	< 0.01	ug/l		1	
24/9/2015	143377								no
24/8/2015	MW7	P Isopropyltoluene	Annual	<0.01	<0.01	ug/1			
24/8/2015 24/8/2015	MW7	N Butyl Benzene	Annual	<0.01	<0.01	ug/l			no

Groundwater	Soil monitoring temp	late		Lic No:	W0068-03		Year	2015	
		1,2-dibromo-3-							
24/8/2015	MW7	chloropropane	Annual	< 0.01	< 0.01	ug/l			no
		1,2,3-							
24/8/2015	MW7	trichlorobenzene	Annual	< 0.01	< 0.01	ug/l			no
24/8/2015	MW7	Mecoprop	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		
24/8/2015	MW7	Bentazone	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		no
24/8/2015	MW7	Simazine	Annual	< 0.01	< 0.01	ug/l	0.075 ug/l		no
Quarterly	MW2	pН	Quarterly	7.9	7.6	UNITS		9.5	no
Quarterly		Temp	Quarterly					25	no
Quarterly		Elec.Conductivity	Quarterly	45.1	44.1	uS/cm		1000	no
Quarterly		Chlorides	Quarterly	18868	17212	mg/l		250	no
		Ammoniacal							
Quarterly		Nitorgen	Quarterly	4.16	2.91	mg/l		no limit set	no
Quarterly		Iron	Quarterly	44	11.1			1.2	no
Quarterly		TON	Quarterly	< 0.2	< 0.2	mg/l		No abnormal change	no
		TOC		9.7	8.03	mg/l		no limit set	no
Quarterly	MW3	pН	Quarterly	7.4	7.25	UNITS		9.5	
Quarterly		Temp	Quarterly					25	no
Quarterly		Elec.Conductivity	Quarterly	15.6	5.94	uS/cm		1000	
Quarterly		Chlorides	Quarterly	5040	1783	mg/l		250	no
		Ammoniacal							
Quarterly		Nitorgen	Quarterly	26	9.81	mg/l		no limit set	no
Quarterly		Iron	Quarterly	4084	1032				no
Quarterly		TON	Quarterly	3.17	0.91	mg/l		No abnormal change	no
Quarterly		TOC	Quarterly	38.4	20.36	mg/l		no limit set	
Quarterly	MW5	pH	Quarterly	7.2	7.05	UNITS		9.5	
Quarterly		Temp	Quarterly					25	no
Quarterly		Elec.Conductivity	Quarterly	5.6	3.96	uS/cm		1000	
Quarterly		Chlorides	Quarterly	1732	1109	mg/l		250	no
		Ammoniacal							
Quarterly		Nitorgen	Quarterly	1.3	1.26	mg/l		no limit set	no
Quarterly		Iron	Quarterly	0.046	0.046		ļ		no
Quarterly		TON	Quarterly	<0.2	<0.2	mg/l	ļ	No abnormal change	no
Quarterly	1	TOC	Quarterly	25	25	mg/l	1	no limit set	no

*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.

Groundwater monitoring template

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)

Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013),

**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

Surface water Groundwater Drinking water (private Drinking water (public supply) EQS regulations GTV's supply) standards standards Interim Guideline Values (IGV)

Groundwater/	Soil monitoring templat	te			Lic No:	W0068-03		Year	2015	
Table 3: Soil r	esults									
Date of	Sample location	Parameter/								
sampling	reference	Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit			
							SELECT			
							SELECT			
	-		-	•	•	•	-	•		
			Whom additional do	toil in manninad mlanca auton	it here in 200 words or less					
			w nere additional de	tan is reduired biease enter	it here in 200 words or less					

Environmental Liabilities template	Lic No:	W0068-03	Year	2015
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Click here to access EPA guidance on Environmental Liabilities and Financial provision

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

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0068-03	Year
	Highlighted cells contain dropdown menu click to view		Additional Infor	mation	_
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes		des sections on use of manual, site location and n, types of waste accepted and procedures,	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes			
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance				
3	with the licence requirements	Yes			
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes			

Environmental Management Program	me (EMP) report				
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
			Improvement of gas		
			extraction system and		
	Maintain number of		operational controls.		
	complaints, annually, to		Additional flow controls		Improved Environmental
Reduction of emissions to Air	less than 3	100	added to existing well heads.	Site Staff	Management Practices
			Improvement of Civic		
			Amenity Site layout and		
			improved maintenance of		
			existing infrastructure.		
	Improve annual recycling		Improved sign markings and		
Materials Handling/Storage/Bunding	rate by 3%	80	road sign markings.	Site Staff & Management	Improved use by customers.
			Liasing with Security		
			Company and An Gardaí		Cleaner site and improved
			Síochana to deter would-be		Health & Safety practice.
			intruders. Introduction of		Energy saving due to the
			"infra-red" cameras and		removal of night-time site
Additional improvements	Improve Site Security	80	additional intruder beams.	Site Staff & Management	lighting.
	To control environmental		Reduction of litter &		Increased compliance with
Additional improvements	nuisances at the facilty	95	improved site practices	Site Staff & Management	licence conditions
	Provision of pumping		Additional sump constructed		
	facilities to capture all run-		on Cell 9 to capture leachate		Increased compliance with
Leachate collection	off generated at site.	90	run-off.	Site Staff & Management	licence conditions
	Improved gas intake to		Improvement of site practice		
	flare unit and more		to ensure increased gas		Increased compliance with
Gas extraction system	efficient burning of gas	95	capture	Site Staff	licence conditions

Noise monitoring summary report	Lic No:	W0068-03	Year 2015
1 Was noise monitoring a licence requirement for the AER period?		Yes	1
If yes please fill in table N1 noise summary below			_
	Noise		
2 Was noise monitoring carried out using the EPA Guidance note, including completion of the	<u>Guidance</u>	Yes	
"Checklist for noise measurement report" included in the guidance note as table 6?	note NG4		
3 Does your site have a noise reduction plan		SELECT	
4 When was the noise reduction plan last updated?		Enter date	
Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since to survey?	he last noise	No	

Table N1: No	ise monitoring s	ummary									
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
26/8/2015	30 min	N1		46.3	43.4	48.3	68.1	No	SELECT	Traffic from N25.	Yes
	30 min	N1		47.2	43.8	49.1	65.5	No		Bird calls	Yes
	30 min	N1		47.2	37.8	49.4	73.2	No		occassional bang from JCB working on site	Yes
	30 min	N2		48.4	45.5	50.5	57.9	No		Traffic N25	Yes
	30 min	N2		48.8	45.5	51	61.4	No		Windy during surveying	Yes
	30 min	N2		48.4	45.4	50.5	64.4	No			Yes
	30 min	N3		45.8	34	44.9	77.6	No		Traffic from N25.	Yes
	30 min	N3		40	35.1	42.1	64.4	No		Country noise of birds and trees shaking	Yes
	30 min	N3		39.1	34.6	40.4	63.4	No			Yes
	30 min	N4		50.1	46.5	52.4	66.9	No		Traffic N25	Yes
	30 min	N4		49.9	46.8	51.9	64.2	No		Traffic leaving and entering site	Yes
	30 min	N4		50.4	47	52.2	74.5	No			Yes

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

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

SELECT

** please explain the reason for not taking action/resolution of noise issues?	**	please	explain	the reason	for no	t taking	action/	resolution/	of noise	issues?
--	----	--------	---------	------------	--------	----------	---------	-------------	----------	---------

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary Lic No: W0068-03 Year 2015

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

SEAI - Large
Industry Energy
Network (LIEN)
No

Select

Additional information

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

Netwo

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

Table R1 Energy usag	e on site			
Energy Use	Previous year		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	93.65		-10%	
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (N	0	0		
Electricity Consumption (MWHrs)	93.65	84.08	-10%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0.2	0.2	0.00%	
Light Fuel Oil (m3)	17	17	0%	
Natural gas (m3)	0	0	0	
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usage				Water Emissions	Water Consumption		
	Water extracted			Energy Consumption +/- % vs overall site	Volume Discharged back to	Volume used i.e not discharged to environment e.g. released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	202	178	-12%	N/A	178	N/A	
Recycled water							
Total	202	178	-12%		178		

* 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	n Summary				
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary 2015 Lic No: W0068-03 Year Table R4: Energy Audit finding recommendations Description of Predicted energy Status and Date of audit Recommendations Measures proposed Origin of measures savings % Implementation date Responsibility Completion date comments Jun-15 Replacement of lighting Replace units when faienergy audit 10% Energy Audit find Jan-16 Site management Ongoing SELECT SELECT

	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:	W0068-03	Year	2015
Complaints					
		Additional informa	ation		
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 heleus	No	No confirmed con	anlaint was resigned by the facility. On	a complaint was investigated	but was found to related to an adjacent facility

Table	1 Complaints summary						
			Brief description of complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
reporting year Total new complaints received during reporting year Total complaints		-					
closed during reporting year							
Balance of complaints end of reporting year	alance of omplaints end of						

_	Incidents		·	•
				Additional information
Have any incidents occurred on site in the current repo year in Tab	SELECT			
*For information on how to report and what				
constitutes an incident				

incidents previous year % reduction/ increase

Table 2 Incidents sur	mmary]											
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	time of incident	Communication	Occurrence	words	words	Resolution status	date	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														

WASTE SUMMARY
Lic No: W0068-03 Year 2015

SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES
PRITE facility logon.
dropdown list click to see options

ECTION A - SECTOR SPECIFIC PRTR POLITITANTS

	R	ELEASES TO AIR			Please enter all quantities in this s	ection in KGs		
	POLLUTANT		METHOD			QUANTITY		
			Me	ethod Used				
						T (Total)	A (Accidental)	
No. Annex	x II Name	M/C/E	Method Code	Designation or Description	Emission Point 1	KG/Year	KG/Year	F (Fugitive) KG/Year
				Measured through				
				analysis of flare flue				
			ОТН	gas emissions				
01	Methane (CH4)	С	ОТН	monitoring	0	.0 545033.0	0.0	545033.0
				Measured through analysis of flare flue				
				gas emissions				
02	Carbon monoxide (CO)	M	ISO 12039:2001	monitoring	0	.0 7.54	4 0.0	7.5
02	Carbon monoxide (CC)	IVI	100 12000.2001	Measured through	Ů	.0 7.5-	• 0.0	, ,,,
				analysis of flare flue				
				gas emissions				
03	Carbon dioxide (CO2)	С	ISO 12039:2001	monitoring	0	.0 2151014.0	0.0	2151014.0
				Measured through				
				analysis of flare flue				
				gas emissions				
07	Non-methane volatile organic compounds	M	EN 13649:2001	monitoring	0	.0 16.27	7 0.0	16.27
				Measured through				
				analysis of flare flue				
08	Nitro and addition (NIO-/NIOO)	М	EN 14792:2005	gas emissions monitoring	0	.0 353.34	4 0.0	353.34
08	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005	Measured through	Ü	.0 353.34	¥ 0.0	J 353.34
				analysis of flare flue				
				gas emissions				
11	Sulphur oxides (SOx/SO2)	M	EN 14791:2005	monitoring	0	.0 187.55	5 0.0	187.55
	Carpital Calada (OCA/OCZ)		2.1.1.701.2000	g	0			
					0			
					0	.0 0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

OLOTION D. INLIMITATION	NOT KIN TOLLOTTING									
						Please enter all quantities in this section in KGs				
	POLLUTANT	METHOD			QUANTITY					
		Method Used								
						T (Total)	A (Accidental)			
No. Annex II	Name	M/C/E	Method Code Designation or Description		Emission Point 1	KG/Year	KG/Year	F (Fugitive) KG/Year		
					0.0)	0.0	0.0		

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

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

	F	RELEASES TO AIR			Please enter all quantities in this section in KGs					
	POLLUTANT	METHOD			QUANTITY					
			N	Method Used						
						T (Total)	A (Accidental)			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	KG/Year	KG/Year	F (Fugitive) KG/Year		
					0.1)	0.0	0.0		

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

	quested from Landfill operators rovide summary data on landfill gas (Methane)					
Landfill:	Youghal Landfill					
Please enter						
summary data on the quantities of						
methane flared and /						
or utilised			Meth	od Used		
				Designation or		
	T (Total) kg/Year	M/C/E	Method Code	Description	Facility Total Capacity m3 per hour	
Total estimated						
methane generation		_				
(as per site model)	1106847.0	С	OTH	Gas Sim model	N/A	J
				Measured through analysis of flare flue		
				gas emissions		
Methane flared	561814.0	М	ОТН	monitoring	1380.0	(Total Flaring Capacity)
Methane utilised in engine/s			0111			(Total Utilising Capacity)
I crigine, s	0.0			Gas Sim model and	0.0	(
I				measured through		
Net methane emission				analysis of flare flue		
(as reported in Section				gas emissions		
A above)	545033.0	С	OTH	monitoring	N/A	J

 WASTE SUMMARY
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5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

	NT & OFFSITE TRANSFERS OF WASTE	-	Please enter all quantities on this sheet in Ton	ame : Youghal Landfill Filename : AER summa Ines	ry roughai 2015.xisin	Return rear . 2015					24/03/2016 0
			Quantity (Tonnes per Year)			Method Used		Haz Waste: Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Dispose	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of F Destination i.e. Fi Recovery / Dispos Site (HAZARDOL WASTE ONLY
Transfer Destination	European Waste Code	Hazardous	Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment				
Within the Country	13 02 05	Yes	mineral-based non- chlorinated engine, 1.94 gear and lubricating oils	; R9	м	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Industrial Estate,Portlaoise ,Co	Enva Ltd,W0184- 01,Clonminam Industrial Estate,Portlaoise, Co Laois,.,Ireland	
Within the Country	15 01 01	No	paper and cardboard 70.76 packaging	R3	м	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,Ireland		
Vithin the Country	15 01 02	No	21.49 plastic packaging	R5	М	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,.,Ireland		
Vithin the Country	15 01 04	No	7.5 metallic packaging	R4	М	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,.,Ireland		
Vithin the Country	15 01 07	No	65.12 glass packaging	R5	М	Weighed	Offsite in Ireland	Mr. Binman,W0061-01	Luddenmore,Gra nge,Kilmalock,Co Limerick,Ireland		
Within the Country	16 06 01	Yes	0.9 lead batteries	R4	М	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappinacur Industrial Estate, Tullamore , Co Offlay, , Ireland Carrigtohill Wastewater Treatment	KMK Metals Ltd,W0133- 03,Cappincur Industrial Estate,Tullamore, Co Offlay,,,Ireland	
Within the Country	19 07 03	No	landfill leachate other than those mentioned 3634.19 in 19 07 02	D8	М	Weighed	Offsite in Ireland	Cork County Council,.	Plant,Tullagreen, Carrigtohill ,Co Cork,Ireland		
Within the Country	20 01 01	No	88.08 paper and cardboard	R3	м	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate, Glanmire, Cork,., Ireland 41-42 Cookstown Industrial		
Vithin the Country	20 01 02	No	7.5 glass	R5	М	Weighed	Offsite in Ireland	MSM Recycling,W0079-01	Estate,Tallaght,D ublin,D 24,Ireland		
Vithin the Country	20 01 11	No	7.68 textiles	R5	м	Weighed	Offsite in Ireland	Textile Recycling Ltd, WCP-DC- 08-1225-01	Glen Abbey Business Park,Tallaght,Du blin,D24,Ireland		
lithin the Country	20 01 27	Yes	paint, inks, adhesives and resins containing 3.4 dangerous substances	P1	м	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Clonminam Industrial Estate,Portlaoise ,Co Laois,.,Ireland	Enva Ltd,W0184- 01,Clonminam Industrial Estate,Portlaoise, Co Laois,.,Ireland	

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		discarded electrical and						Cappinacur
		electronic equipment						Industrial
		other than those						Estate,Tullamore
		mentioned in 20 01 21,						,Co
Vithin the Country 20 01 36	No	115.5 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Offlay,.,Ireland
								Rostellan,Midlet
		wood other than that					CTO Environmental Solutions	on,Co
Vithin the Country 20 01 38	No	90.26 mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	Ltd,CK/09/0068/02	Cork,.,Ireland
Vithin the Country 20 01 40	No	46.34 metals	R4	М	Weighed	Offsite in Ireland	478/07	Road,Togher,Cor
Vithin the Country 20 02 01	No	48.18 biodegradable waste	R3	M	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Industrial

	SECTION B- WASTE	ACCEPTED ONTO SITE-TO BE CO	MPLETED BY ALL IPPC AN	ID WASTE FACILITIES									
								Additional Informatio	n				
	Were any wastes accepte	ed onto your site for recovery or disposal or	r treatment prior to recovery or o	disposal within the boundar	ies of your facility ?: (wast	e generated within your boundaries is							
	to be captured through F		,		,, ., (- G	No						
	If yes please enter details	s in table 1 below							-				
2	Did your site have any re	jected consignments of waste in the curren	nt reporting year? If yes please given	ve a brief explanation in the	additional information		No						
3		waste accepted onto your site that was gen					No] 	≖ n			
		f waste accepted onto your s									0	C	1
	Licenced annual tonnage limit for your	EWC code	Source of waste accepted		Quantity of waste accepted in current	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over	Reason for reduction/increase	Packaging Content (%)- only applies if the	Disposal/Recovery or treatment operation carried out	Quantity of waste	Comments -	ı
	site (total				reporting year (tonnes)	p	previous year +/ -	from previous		at your site and the description	remaining on		ı
	tonnes/annum)			accurate and detailed			%	reporting year	component	of this operation	site at the end		ı
				description - which applies to relevant EWC							of reporting year (tonnes)		ı
				code							year (torriles)		ı
		European Waste Catalogue EWC codes		European Waste									ı
				Catalogue EWC codes									1
													4
													1
													1
	Į				ı		I		I				
	SECTION C-TO BE C	OMPLETED BY ALL WASTE FACILI	ITIES (waste transfer stat	ions, Composters, M	aterial recovery facil	ities etc) EXCEPT LANDFILL SI	res						
											1		
4	Is all waste processing in	frastructure as required by your licence and	d approved by the Agency in plac	e? If no please list waste pr	ocessing infrastructure req	uired onsite	SELECT						
											l		
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				1			
	7 Do you have an odour management system in place for your facility? If no why? 8 Do you maintain a sludge register on site?						SELECT SELECT				1		
٥	to you maintain a sludge register on site?						SEECI				1		

WASTE SUMMARY Lic No: W0068-03 2015 Year

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
Household & Commercial	128,000	0		Void Area is almost completely filled. Waste has ceased to be accepted but managemnt of Cork County Council have yet to decide when to fill the remaining void.
Industrial non-haz	27,000	0	180	
Construction&Demoliti on Waste	5,300	0		

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?		Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										SELECT UNIT	SELECT UNIT	SELECT UNIT
Cell 9	Dec-08	Temporary Cease Feb 2012	Yes	Public	Non Hazardous	2017	No	No	No	80000	40000	40000

 WASTE SUMMARY
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Table 4 Environmental monitoring-landfill only Landfill Manual-Monitoring Standards

Tubic 4 Environmental monitoring landing only		Cartariii Wandar Worldonii g Stan							
Was metero	ological								
monitoring i	in							Has the statement	
compliance	with			Was SW monitored in			Was topography	under S53(A)(5) of	
Landfill Dir	rective (LD)		Was Landfill Gas monitored in	compliance with LD			of the site	WMA been	
standard in			compliance with LD standard in	standard in reporting	Have GW trigger levels	Were emission limit values agreed with	surveyed in	submitted in	
year +		with LD standard in reporting year	reporting year	year	been established	the Agency (ELVs)	reporting year	reporting year	Comments
									All license conditions
									being met under
									current monitoring
Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	regime

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

Table 5 Capping-Landfill only

Area uncapped* SELECT UNIT	Area with temporary cap SELECT UNIT	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
	17.000 square metres	81.800 square metres			1mm HDPE welded liner, geotextile drainage layer and protection barrier covered with 1m of suitable, screened soil.	

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

SELECT

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

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)		Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
							Values are in line with than previous
							years due but with
							an increased volum
							of leachate taken
							off-site. This
							indicates a further
							reduction in the
							parameter results
						Wastewater	the leachate at
						Treatment Plant	Youghal Landfill.
						with Mixing tank,	This is atributed to
						Oxidation ditch	the greater captur
						& Settlement	of dilute leachate
8784 75	320.2	1730 6	1235	2387 1	No	tanks	from Cell 9

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
				Gas captured figure is Annual Methane burn- off in kg/annum. Areas of elevated VOC's are identified by the surveys and are attended to by site staff. Well heads and flanked areas are repaired to improve gas system coverage at the site. Ongoing on-
561814 kg CH4/Annum	0	0	Yes	site maintenance.

Comments on liner type

liner with