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	2017		
Licence Register Number	W0068-03		
Name of site		Youghal	Landfill
Site Location	Fo	xhole, You	ghal, co.Cork
NACE Code		38	21
Class/Classes of Activity		5(c), 5(d	d), 50.1
National Grid Reference (6E, 6 N)		2100E	0800N

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 2017 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 2017. 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 information	is assured to meet licence requiremen
	28/03/2018
Signature  (or monimizated, surrously quantities und	Date
experienced deputy)	

	AIR-summary template	Lic No:	W0068-03	Year	2017
	Answer all questions and complete all tables where relevant				
			Add	itional information	
	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current				
1	reporting year and answer further questions. If you do not have licenced emissions and do not complete a				
	solvent management plan (table A4 and A5) you do not need to complete the tables				
		Yes			
	Periodic/Non-Continuous Monitoring	-	1		
2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of				
_	TableA1 below	No			
	Basic air				
3	Was all monitoring carried out in accordance with EPA guidance monitoring				
	note AG2 and using the basic air monitoring checklist? <u>checklist</u> <u>AGN2</u>	Yes			
	Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)				

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with	Method of analysis	Annual mass	Comments - reason for change in % mass load from previous year if applicable
reference no.		g	there.		707741		neerice mine	meeriou or unarysis	rodd (ng)	Annual mass
Flare Stack	Methane (CH4)	Continuous	N/A	SELECT		m3	yes	MAB	483218	load refers to difference
					222408					load refers to
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT		m3	yes	ISO 12039:2001	415903	difference
				No 30min mean can exceed	7.87					
Flare Stack	Carbon monoxide (CO)	Continuous		the ELV		mg/Nm3	yes	ISO 12039:2001	23.5	
	Nitrogen oxides			No 30min mean can exceed	128.04					
Flare Stack	(NOx/NO2)	Annual	<150mg/Nm3	the ELV		mg/Nm3	yes	EN 14792:2005	382.27	
	Sulphur oxides									
Flare Stack	(SOx/SO2)	Annual	N/A		50.24	mg/Nm3	yes	EN 14791:2005	150	

AIR-summary template	Lic No:	W0068-03	Year	2017
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 compare it to its relevant Emission Limit Value (ELV)				
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			94	0	One enclosed	flare operating on site for 2017
	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

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

<sup>\*</sup> this should include all dates that an abatement system bypass occurred

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

AIR-summ	ary template				Lic No:	W0068-03		Year
Solv	vent use and manageme	nt on site						
Do you have a	total Emission Limit Value of d	lirect and fugitive emi	ssions on site? if ye	s please fill out tables A4 and A5			SELECT	
	Solvent Management Pla Emission limit value	an Summary	Solvent regulations	Please refer to linked solver complete table 5				
Reporting y	Total solvent input on site (kg)		emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance			
					SELECT			
					SELECT			
Table	A5: Solvent Mass Balan	ce summary						
	(I) Inputs (kg)			(0)	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)
		1					Total	
							TOLAI	l .

2017

	AER Monitoring returns summary template-walek/wasiewalek(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	No			

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	8.00	pH units	yes	Median Vaulue for 2017
SW1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median Vaulue for 2017
SW1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	14.10	μS/cm@25oC	yes	Median Vaulue for 2017
SW1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	10	mg/L	yes	Median Vaulue for 2017
SW1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	2775	mg/L	yes	Median Vaulue for 2017. sw1 is infulenced by saline water.
SW1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	<2	mg/L	yes	Median Vaulue for 2017
SW1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	245	mg/L	yes	Median Vaulue for 2017
SW1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.13	mg/L	yes	Median Vaulue for 2017
SW1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	24	mg/L	yes	Median Vaulue for 2017
SW1	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<3	μg/L	yes	Annual result
SW1	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<0.3	mg/L	yes	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	<0.19	μg/L	yes	Annual result
SW1	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	0.283	μg/L	yes	Annual result
SW1	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	322	mg/L	yes	Annual result
SW1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	61.8	μg/L	yes	Annual result
SW1	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.01	μg/L	yes	Annual result
SW1	upstream		Potassium	Annual	No ELV or trigger levels	N/A	102	mg/L	yes	Annual result. SALINE WATERS
SW1	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	621	mg/L	yes	Annual result. SALINE WATERS
SW1	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result
SW1	upstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	5.94	μg/L	yes	Annual result
SW1	upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.5	mg/L	yes	Annual result
SW2	downstream		рН	Quarterly	No ELV or trigger levels	N/A	8.0	pH units	yes	Median Vaulue for 2017
SW2	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median Vaulue for 2017
SW2	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	13.00	μS/cm@25oC	yes	Median Vaulue for 2017
SW2	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.00	mg/L	yes	Median Vaulue for 2017
SW2	downstream	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	4514	mg/L	yes	Median Vaulue for 2016. SW2 is located along the mud bank and is tidal.
SW2	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	<10	mg/L	yes	Median Vaulue for 2017
SW2	downstream		COD	Quarterly	No ELV or trigger levels	N/A	157	mg/L	yes	Median Vaulue for 2017
SW2	downstream		Ammonia (as N)	Quarterly			3.00	mg/L	yes	Median Vaulue for 2017
SW2	downstream		Suspended Solids	Quarterly	No ELV or trigger levels		72	mg/L	yes	Median Vaulue for 2017  Annual result
SW2	downstream	Chromium and compounds (as Cr)		Annual		N/A	<3	μg/L	yes	Annual result
	downstream	Copper and compounds (as Cu)			No ELV or trigger levels	N/A	0.5	mg/L	yes	
SW2	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		μg/L	yes	Annual result
SW2	downstream		Iron	Annual	No ELV or trigger levels	N/A	0.562	μg/L	yes	Annual result
SW2	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	0.35	μg/L	yes	Annual result
SW2	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	415	mg/L	yes	Annual result

it iviointon	ing returns su	mmary template-WA	IEN/WASIEWAI	ER(SEWER)		Lic No:	W0068-03		Year	
SW2	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	1740	μg/L	yes	Annual result
SW2	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.01	ug/L	ves	Annual result
SW2	downstream	, , , , , , , , , , , , , , , , , , , ,	Potassium	Annual	No ELV or trigger levels	N/A	133	mg/L	ves	Annual result
SW2	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	747	mg/L	ves	Annual result
SW2			Total Oxidised Nitrogen	Annual	No ELV or trigger levels	·	/4/	Ŭ		Annual result
SW2	downstream		(TON)	Annual	No ELV or trigger levels	N/A		mg/L	yes	Annual result
SW2	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	5.55	μg/L	yes	Annual result
SW3	downstream	Total phosphorus		Quarterly		N/A	0.5	mg/L	yes	Median Vaulue for 2017
SW3	downstream		PH	4.1.1.1	No ELV or trigger levels	N/A	9.0	pH units	yes	
	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median Vaulue for 2017
SW3	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	23.0	μS/cm@25oC	yes	Median Vaulue for 2017
SW3	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8	mg/L	yes	Median Vaulue for 2017  Median Vaulue for 2017. I slocate
SW3	downstream	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	8800	mg/L	yes	sluice gate and is tidal.
SW3	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	<10	mg/L	yes	Median Vaulue for 2017
SW3	downstream		COD	Quarterly	No ELV or trigger levels	N/A	521	mg/L	yes	Median Vaulue for 2017
SW3	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	2.00	mg/L	yes	Median Vaulue for 2017
SW3	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	57	mg/L	yes	Median Vaulue for 2017
SW3	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<3	μg/L	yes	Annual result
SW3	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<0.3	mg/L	yes	Annual result
SW3	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	-	ue/L	ves	Annual result
SW3	downstream	Communication Compounds (as ca)	Iron	Annual	No ELV or trigger levels	N/A	<0.19	μg/L ug/L	ves	Annual result
SW3		Lead and compounds (as Pb)	Hon	Annual	No ELV or trigger levels	·	<0.19	·		Annual result
	downstream	Lead and compounds (as Pb)				N/A	<0.2	μg/L	yes	Annual result for 2017. EQS lim
SW3	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	398	mg/L	yes	mg/l.Elevated levels are consiste previous years and are due to the of the site.
SW3	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	1690	μg/L	yes	Annual result
SW3	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.01	μg/L	yes	Annual result
SW3	downstream	, , , , , , , , , , , , , , , , , , , ,	Potassium	Annual	No ELV or trigger levels	N/A	129	mg/L	yes	Annual result. SALINE WATE
SW3	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	756	mg/L	yes	Annual result. SALINE WATE
SW3			Total Oxidised Nitrogen	Annual	No ELV or trigger levels	N/A	750			Annual result
SW3	downstream	7	(TON)	annual	No ELV or trigger levels		2.76	mg/L	yes	Annual result
SW3	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	3.76	μg/L	yes	Annual result
SW6	downstream	Total phosphorus		Quarterly	No ELV or trigger levels	N/A	0.4	mg/L	yes	Median Vaulue for 2017
SW6	downstream		PH	Quarterly		N/A	8.0	pH units	yes	Median Vaulue for 2017
	downstream		Temperature		No ELV or trigger levels	N/A		degrees C	yes	
SW6	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	14.0	mS/cm@25oC	yes	Median Vaulue for 2017
SW6	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	9.0	mg/L	yes	Median Vaulue for 2017
SW6	downstream	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	5245	mg/L	yes	Median Vaulue for 2017. SW6 is along the mud bank and is t
SW6	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	3	mg/L	yes	Median Vaulue for 2017
SW6	downstream		COD	Quarterly	No ELV or trigger levels	N/A	153	mg/L	yes	Median Vaulue for 2017
SW6	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	3.00	mg/L	yes	Median Vaulue for 2017
SW6	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	21	mg/L	yes	Median Vaulue for 2017
SW6	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	No results	μg/L	yes	Annual result
SW6	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	No results	mg/L	ves	Annual result
SW6		Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		Ŭ		Annual result
SW6	downstream	Caumium and compounds (as Cd)		Annual	No ELV or trigger levels	.,,	No results	μg/L	yes	Annual result
SW6	downstream		Iron	Annual	No ELV or trigger levels	N/A	No results	μg/L	yes	Annual result
	downstream	Lead and compounds (as Pb)				N/A	No results	μg/L	yes	Annual result for 2017. EQS limit i
SW6	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	No results	mg/L	yes	Elevated results is consistent and
SW6	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	No results	μg/L	yes	Annual result
SW6	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	No results	μg/L	yes	Annual result

	AER Monitori	ing returns sui	mmary template-WA	TER/WASTEWAT	ER(SEWER)		Lic No:	W0068-03		Year	2017
	SW6	downstream		Potassium	Annual	No ELV or trigger levels	N/A	757	mg/L	yes	Annual result. This is saline water.
Ī	SW6	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	No results	mg/L	yes	Annual result. This is saline water.
Ī	SW6	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	No results	mg/L	yes	Annual result
Ī	SW6	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	No results	μg/L	yes	Annual result
Ī	SW6	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.47	mg/L	yes	Annual result
	GA127	onsite		рН	Quarterly	No ELV or trigger levels	N/A	dry	pH units	yes	Median Vaulue for 2017
Ī	GA127	onsite		Temperature	Quarterly	No ELV or trigger levels	N/A	dry	degrees C	yes	Median Vaulue for 2017
Ī	GA127	onsite		Conductivity	Quarterly	No ELV or trigger levels	N/A	dry	μS/cm@25oC	yes	Median Vaulue for 2017
Ī	GA127	onsite	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2017
Ī	GA127	onsite		BOD	Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2017
Ī	GA127	onsite		COD	Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2017
Ī	GA127	onsite		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2017
Ī	GA127	onsite		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2017
Ī	GA127	onsite	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
Ī	GA127	onsite	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual result
Ī	GA127	onsite	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
f	GA127	onsite		Iron	Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	annual resuts
Ī	GA127	onsite	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual result
Ī	GA127	onsite		Magnesium	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
Ī	GA127	onsite		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual result
Ī	GA127	onsite	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual result
Ī	GA127	onsite		Potassium	Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual result
Ī	GA127	onsite		Sulphate	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
3	GA127	onsite		(TON)	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
4	GA127	onsite	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	dry	μg/L	yes	Annual result
	GA127	onsite	Total phosphorus		Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of		ELV or trigger values in licence or any		Measured value	Unit of	Compliant with licence	Method of analysis	Procedural	Annual mass load	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 Mo	onitoring	g returns sur	mmary template-WA	TER/WASTEWA	TER(SEWER)		Lic No:	W0068-03		Year	2017	7
		onitoring y out continuou	us emissions to water/sewe	er monitoring?		SELECT		Additional Information		1		
		arise your conti imit Value (ELV)	inuous monitoring data be	low in Table W4 and	compare it to its					•		
Did contin		nitoring equipm	nent experience downtime	? If yes please record	downtime in	SELECT				]		
site?			ntract for each piece of co	_		SELECT				]		
8 Did abatement system bypass occur during the reporting year? If yes please complete table W below Table W4: Summary of average emissions -continuous monitoring						SELECT	J					
ELV or trigger									% change +/- from			
Emission Emission reference no: released to Parameter/ Substance thereof Period					Averaging			Annual Emission for current reporting year (kg)	previous reporting year		Number of ELV exceedences in reporting year	Comments

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

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	 	 action*	Was a report submitted to the EPA?	When was this report submitted?
				SELECT	

<sup>\*</sup>Measures taken or proposed to reduce or limit bypass frequency

														-
Bund/Pipeline tes	sting template				Lic No:	W0068-03		Year	2017	,				
	7													
Bund testing		dropdown menu c	•				Additional information	7						
Are you required by yo	our licence to undertake in	ntegrity testing on bunds and con	tainment structures ? if yes p	lease fill out table B1 below	v listing all new bunds and		Only one bund test is required at the							
containment structure	s on site, in addition to a	II bunds which failed the integrity	test-all bunding structures w	hich failed including mobil	e bunds must be listed in		site for the leachate lagoon. The							
the table below, please	e include all bunds outsid	le the licenced testing period (mo	bile bunds and chemstore in	luded)			lagoon is used for storage of							
Please provide integrit				•		Yes 3 years	leachate prior to transport to local	+						
Does the site maintain	n a register of bunds, und	erground pipelines (including stor	mwater and foul), Tanks, sum	ps and containers? (contain	ners refers to "Chemstore"			1						
3 type units and mobile						No		4						
4 How many bunds are o		hin the required test schedule?					1	+						
6 How many mobile bun		nin the required test schedule?					1	+						
7 Are the mobile bunds i						No	1	+						
						NO		+						
		sted within the required test sche	aule?				1	4						
9 How many sumps on si						NI/A	U	+						
10 How many of these sur						N/A	_1	ı						
	ntegrity failures in table B							7						
11 Do all sumps and cham			2			No		+						
		I in a maintenance and testing pro	ogramme?			N/A		+						
13 Is the Fire Water Reter	ntion Pond included in yo	ur integrity test programme?				No		1						
Tak	ble B1: Summary details o	f bund /containment structure in	tegrity test	7										
18.	cetails o	, contaminent structure in	,											
														i i
														Results of
									Integrity reports					retest(if 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	reporting
Leachate Lagoon	reinforced concrete	Liner covered concrete	Leachate	2000 m3	1500 m3	Structural assessment		Oct-08	Yes	Pass		SELECT	Jun-18	3
	SELECT					SELECT		1	SELECT	SELECT		SELECT		
* Capacity required should com	nply with 25% or 110% containmen	t rule as detailed in your licence												
							Commentary	-						
	een carried out in accorda	ince with licence requirements ar	nd are all structures tested in		_		Commentary	7						
15 line with BS8007/EPA	een carried out in accorda Guidance?	ince with licence requirements ar	nd are all structures tested in	bunding and storage guidel	lines .	SELECT	Commentary							
15 line with BS8007/EPA of 16 Are channels/transfer	een carried out in accorda Guidance? systems to remote contai	nnce with licence requirements ar nment systems tested?			lines_	SELECT	Commentary							
15 line with BS8007/EPA of 16 Are channels/transfer	een carried out in accorda Guidance? systems to remote contai	ince with licence requirements ar			lines.		Commentary	]						
15 line with BS8007/EPA of 16 Are channels/transfer	een carried out in accorda Guidance? systems to remote contai	nnce with licence requirements ar nment systems tested?			<u>lines</u>	SELECT	Commentary							
15 line with BS8007/EPA 0 16 Are channels/transfer 17 Are channels/transfer	een carried out in accorda Guidance? systems to remote contai	nnce with licence requirements ar nment systems tested?			<u>lines</u>	SELECT	Commentary							
15 line with BS8007/EPA 0 16 Are channels/transfer 1 17 Are channels/transfer 1 Pipeline/undergro	een carried out in accorda Guidance? systems to remote contai systems compliant in bot ound structure testing	nnce with licence requirements ar nment systems tested? hintegrity and available volume?		bunding and storage guidel		SELECT SELECT	Commentary	]						
15 line with BS8007/EPA 0 16 Are channels/transfer 1 17 Are channels/transfer  Pipeline/undergro	een carried out in accorda Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake in	nnce with licence requirements ar nment systems tested? h integrity and available volume?	structures e.g. pipelines or su	bunding and storage guidel	out table 2 below listing all	SELECT SELECT	Commentary							
15 line with BS8007/EPA 0 16 Are channels/transfer 1 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 underground structure	een carried out in accorda Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake in es and pipelines on site w	nnce with licence requirements ar nment systems tested? h integrity and available volume? https://www.norman.com/ ntegrity testing* on underground hich failed the integrity test and i	structures e.g. pipelines or su	bunding and storage guidel	out table 2 below listing all	SELECT SELECT SELECT	Commentary							
15 line with BS8007/EPA 0 16 Are channels/transfer 1 17 Are channels/transfer 1 Pipeline/undergro Are you required by yo 1 underground structure 2 Please provide integrit 2	een carried out in accorda Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake in es and pipelines on site we ty testing frequency perio	nnce with licence requirements an nment systems tested? h integrity and available volume? https://doi.org/10.000/ https://doi.org/10.000/ https://doi.org/10.000/ https://doi.org/10.000/ doi.org/10.000/ https://doi.org/10.0	structures e.g. pipelines or s all which have not been teste	bunding and storage guidel  umps etc ? if yes please fill of withing the integrity test	out table 2 below listing all	SELECT SELECT	Commentary							
5 line with BS8007/EPA 0 6 Are channels/transfer : 7 Are channels/transfer Pipeline/undergro Are you required by yo 1 underground structure 2 Please provide integrit	een carried out in accorda Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake in es and pipelines on site we ty testing frequency perio	nnce with licence requirements ar nment systems tested? h integrity and available volume? https://www.norman.com/ ntegrity testing* on underground hich failed the integrity test and i	structures e.g. pipelines or s all which have not been teste	bunding and storage guidel  umps etc ? if yes please fill of withing the integrity test	out table 2 below listing all	SELECT SELECT SELECT	Commentary							
5 line with BS8007/EPA of 6 Are channels/transfer: 7 Are channels/transfer Pipeline/undergro Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing pour licence to undertake in es and pipelines on site want ty testing frequency perio testing means water tight	nnce with licence requirements an nment systems tested?  h integrity and available volume?   ntegrity testing* on underground  hich falled the integrity test and id  ness testing for process and foul	structures e.g. pipelines or s all which have not been teste pipelines (as required under	bunding and storage guidel  umps etc ? if yes please fill of withing the integrity test	out table 2 below listing all	SELECT SELECT SELECT	Commentary							
15 line with BS8007/EPA (16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 17 Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing pour licence to undertake in es and pipelines on site want ty testing frequency perio testing means water tight	nnce with licence requirements an nment systems tested? h integrity and available volume? https://doi.org/10.000/ https://doi.org/10.000/ https://doi.org/10.000/ https://doi.org/10.000/ doi.org/10.000/ https://doi.org/10.0	structures e.g. pipelines or s all which have not been teste pipelines (as required under	bunding and storage guidel  umps etc ? if yes please fill of withing the integrity test	out table 2 below listing all	SELECT SELECT SELECT	Commentary					1		
15 line with BS8007/EPA (16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 17 Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing pour licence to undertake in es and pipelines on site want ty testing frequency perio testing means water tight	nnce with licence requirements an nment systems tested?  h integrity and available volume?   ntegrity testing* on underground  hich falled the integrity test and id  ness testing for process and foul	structures e.g. pipelines or s all which have not been teste pipelines (as required under	bunding and storage guidel  umps etc ? if yes please fill of withing the integrity test	out table 2 below listing all	SELECT SELECT SELECT	Commentary					1		
15 line with BS8007/EPA (16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 17 Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing pour licence to undertake in es and pipelines on site want ty testing frequency perio testing means water tight	nnce with licence requirements an nment systems tested?  h integrity and available volume?   ntegrity testing* on underground  hich falled the integrity test and id  ness testing for process and foul	structures e.g. pipelines or s all which have not been teste pipelines (as required under	bunding and storage guidel  umps etc ? If yes please fill d  d withing the integrity test your licence)	out table 2 below listing all	SELECT SELECT SELECT	Commentary					]		
15 line with BS8007/EPA (16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 17 Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing pour licence to undertake in es and pipelines on site want ty testing frequency perio testing means water tight	nnce with licence requirements an nment systems tested?  h integrity and available volume?   ntegrity testing* on underground  hich falled the integrity test and id  ness testing for process and foul	structures e.g. pipelines or s all which have not been teste pipelines (as required under	bunding and storage guidel  imps etc ? If yes please fill of d withing the integrity test your licence)  Type of secondary	out table 2 below listing all	SELECT SELECT SELECT	Commentary							
15 line with BS8007/EPA of Life Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer Pipeline/underground are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing pour licence to undertake in es and pipelines on site want ty testing frequency perio testing means water tight	nnce with licence requirements an nment systems tested?  h integrity and available volume?   ntegrity testing* on underground  hich falled the integrity test and id  ness testing for process and foul	structures e.g. pipelines or s all which have not been teste pipelines (as required under	bunding and storage guidel  umps etc ? If yes please fill d  d withing the integrity test your licence)	out table 2 below listing all	SELECT SELECT SELECT	Commentary	Integrity test						
15 line with BS8007/EPA of Life Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer Pipeline/underground are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing pour licence to undertake in es and pipelines on site want ty testing frequency perio testing means water tight	nnce with licence requirements an nment systems tested?  h integrity and available volume?   ntegrity testing* on underground  hich falled the integrity test and id  ness testing for process and foul	structures e.g. pipelines or s all which have not been teste pipelines (as required under	bunding and storage guidel  imps etc ? If yes please fill of d withing the integrity test your licence)  Type of secondary	out table 2 below listing all	SELECT SELECT SELECT SELECT SELECT	Commentary		Corrective action	Scheduled date	Results of retest(if in current			
15 line with BS8007/EPA C 16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 18 Pipeline/undergrc Are you required by the required by	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing bour licence to undertake in es and pipelines on site we by testing frequency perior testing means water tight e B2: Summary details of j	nnce with licence requirements an nment systems tested? hintegrity and available volume? The systems tested in the systems and available volume? The systems are systems and an available the integrity test and a discuss testing for process and foul pipeline/underground structures.	structures e.g. pipelines or su all which have not been teste pipelines (as required under integrity test Does this structure have	bunding and storage guidel  imps etc ? If yes please fill of d withing the integrity test your licence)  Type of secondary	out table 2 below listing all period as specified	SELECT SELECT SELECT SELECT SELECT Integrity reports		failure explanation						
15 line with BS8007/EPA of Life Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer Pipeline/underground are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	een carried out in accords Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake is and pipelines on site w t testing frequency perio testing means water tigh  B2: Summary details of j	nnee with licence requirements ainment systems tested?  In integrity and available volume?  Integrity testing* on underground hich failed the integrity test and aid and the standard the s	structures e.g. pipelines or su all which have not been teste pipelines (as required under- integrity test Does this structure have Secondary containment?	bunding and storage guidel  imps etc ? If yes please fill of d withing the integrity test your licence)  Type of secondary	out table 2 below listing all period as specified  Type integrity testing	SELECT SELECT  SELECT  SELECT  SELECT  Integrity reports maintained on site?	Results of test		Corrective action taken	Scheduled date for retest	reporting year)			
15 line with BS8007/EPA C 16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 18 Pipeline/undergrc Are you required by the required by	een carried out in accords Guidance? systems to remote contain systems compliant in bot bound structure testing bour licence to undertake in es and pipelines on site we by testing frequency perior testing means water tight e B2: Summary details of j	nnce with licence requirements an nment systems tested? hintegrity and available volume? The systems tested in the systems and available volume? The systems are systems and an available the integrity test and a discuss testing for process and foul pipeline/underground structures.	structures e.g. pipelines or su all which have not been teste pipelines (as required under integrity test Does this structure have	jumps etc ? If yes please fill of withing the integrity test your licence)  Type of secondary containment	out table 2 below listing all period as specified	SELECT SELECT SELECT SELECT SELECT Integrity reports		failure explanation						
15 line with BS8007/EPA C 16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 18 Pipeline/undergrc Are you required by	een carried out in accords Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake is and pipelines on site w t testing frequency perio testing means water tigh  B2: Summary details of j	nnee with licence requirements ainment systems tested?  In integrity and available volume?  Integrity testing* on underground hich failed the integrity test and aid and the standard the s	structures e.g. pipelines or su all which have not been teste pipelines (as required under- integrity test Does this structure have Secondary containment?	jumps etc ? If yes please fill of withing the integrity test your licence)  Type of secondary containment	out table 2 below listing all period as specified  Type integrity testing	SELECT SELECT  SELECT  SELECT  SELECT  Integrity reports maintained on site?	Results of test	failure explanation			reporting year)			
15 line with BS8007/EPA C 16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 18 Pipeline/undergrc Are you required by	een carried out in accords Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake is and pipelines on site w t testing frequency perio testing means water tigh  B2: Summary details of j	nnee with licence requirements ainment systems tested?  In integrity and available volume?  Integrity testing* on underground hich failed the integrity test and aid and the standard the s	structures e.g. pipelines or su all which have not been teste pipelines (as required under- integrity test Does this structure have Secondary containment?	jumps etc ? If yes please fill of withing the integrity test your licence)  Type of secondary containment	out table 2 below listing all period as specified  Type integrity testing	SELECT SELECT  SELECT  SELECT  SELECT  Integrity reports maintained on site?	Results of test	failure explanation			reporting year)			
15 line with BS8007/EPA C 16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 18 Pipeline/undergrc Are you required by	een carried out in accords Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake is and pipelines on site w t testing frequency perio testing means water tigh  B2: Summary details of j	nnee with licence requirements ainment systems tested?  In integrity and available volume?  Integrity testing* on underground hich failed the integrity test and aid and the standard the s	structures e.g. pipelines or su all which have not been teste pipelines (as required under- integrity test Does this structure have Secondary containment?	jumps etc ? If yes please fill of withing the integrity test your licence)  Type of secondary containment	out table 2 below listing all period as specified  Type integrity testing	SELECT SELECT  SELECT  SELECT  SELECT  Integrity reports maintained on site?	Results of test	failure explanation			reporting year)			
15 line with BS8007/EPA C 16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 18 Pipeline/undergrc Are you required by	een carried out in accords Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake is and pipelines on site w t testing frequency perio testing means water tigh  B2: Summary details of j	nnee with licence requirements ainment systems tested?  In integrity and available volume?  Integrity testing* on underground hich failed the integrity test and aid and the standard the s	structures e.g. pipelines or su all which have not been teste pipelines (as required under- integrity test Does this structure have Secondary containment?	jumps etc ? If yes please fill of withing the integrity test your licence)  Type of secondary containment	out table 2 below listing all period as specified  Type integrity testing	SELECT SELECT  SELECT  SELECT  Integrity reports maintained on site?	Results of test	failure explanation			reporting year)			
15 line with BS8007/EPA C 16 Are channels/transfer 17 Are channels/transfer 17 Are channels/transfer 18 Pipeline/undergrc Are you required by	een carried out in accords Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake is and pipelines on site w t testing frequency perio testing means water tigh  B2: Summary details of j	nnee with licence requirements an  nment systems tested?  In integrity and available volume?  Integrity testing* on underground  high failed the integrity test and  ind  integrity testing for process and foul  pipeline/underground structures  Material of construction:  SELECT	structures e.g. pipelines or su all which have not been teste pipelines (as required under- integrity test Does this structure have Secondary containment?	bunding and storage guidel sumps etc ? If yes please fill d withing the integrity test your licence)  Type of secondary containment  SELECT	out table 2 below listing all period as specified  Type integrity testing  SELECT	SELECT SELECT  SELECT  SELECT  Integrity reports maintained on site?	Results of test	failure explanation			reporting year)			

er/Soil monitoring template		W0068-03		2017
	Lic No:		Year	

			Comments
1 2	Are you required to carry out groundwater monitoring as part of your licence requirements?  Are you required to carry out soil monitoring as part of your licence requirements?	yes 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 interpretaion as an additional section in this AER
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	SELECT	
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A	There are 7 ground water wells on site at Youghal Landfill. MW1/MW4/MW7 are sampled quarterly with annual parameters attached, while MW2/MW2A/MW3/MW5 are sampled quarterly
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies		for quarterly parameters . Licence trigger limits set at MW1 and MW4 for ammonia and TON were
	proposed/undertaken for the site	N/A	not exceeded during 2017.Licence trigger limits set at MW7 for TON were not exceeded during
7	Please specify the proposed time frame for the remediation strategy	N/A	2017. However, trigger limits set at MW7 for ammonia was exceeded in 2017. It is advised that
8	Is there a licence condition to carry out/update ELRA for the site?	SELECT	trigger limits for MW7 be reassessed, as MW7 was redrilled at a different position in
9	Has any type of risk assesment been carried out for the site?	yes	2013.Quarterly parameters such as conducivity and chlorides limits were exceeded frequently
10	Has a Conceptual Site Model been developed for the site?	yes	during 2017. These exceedences are attributed to the location of the site in realtion to the estuary
11	Have potential receptors been identified on and off site?	yes	and the effect of slaine water on the ground water wells. Overall, ground water results were
12	Is there evidence that contamination is migrating offsite?	no	similiar to previous years.

## t Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data	
Quarterly	MW4	pH	Meter	Quarterly	7.72	7.5	SELECT	GIVS	9.5	no	
Quarterly	MW4	Temp	Meter	Quarterly	7.72	7.5	SEEECT		25	no	+
Quarterly	10100-4	Temp	WICKE	Quarterly					23	110	+
Quarterly	MW4	Elec.Conductivity	Meter	Quarterly	864.00	217.00		800-1875	1000	no	
Quarterly	MW4	Chlorides	titration	Quarterly	699	239	mg/l	24-187.5	250	no	
		Ammoniacal									
Quarterly	MW4	Nitorgen	ISE	Quarterly	19	9.52	mg/l	0.065-0.175	80mg/I* (Trigger limit)	no	
Quarterly	MW4	Iron	ICP	Quarterly	<0.20	<0.19	ug/l		0.2	no	
Quarterly	MW4	TON	HACH	Quarterly	5.8	5.19	ug/l	-	No abnormal change	no	
Quarterly	MW4	TOC	TOC analyser	Quarterly	15	10.10	mg/l		30mg/I (Tigger limit)	no	
Annual	MW4	Cadmium	ICP	Annual	<0.08	<0.09	ug/l	-	0.005	no	
Annual	MW4	Chromium (total)	ICP	Annual	<3	<4	ug/l	37.5	0.03	no	
Annual	MW4	Copper	COLORIMETRY	Annual	<0.3	<0.3	ug/l	1500	0.03	no	
Annual	MW4	Cyanide (Total)	ICP	Annual	< 0.05	< 0.05	ug/l	-	0.01	no	
Annual	MW4	Lead	ICP	Annual	0.239	0.239	ug/l	18.75	0.01	no	
Annual	MW4	Mangnesium	ICP	Annual	13.2	13.2	mg/l	-	50	no	
Annual	MW4	Manganese	ICP	Annual	18.6	18.6	ug/l	-	0.05	no	
Annual	MW4	Mercury	ICP	Annual	< 0.01	<0.01	ug/l	0.75	0.001	no	
Annual	MW4	Nickle	ICP	Annual	<0.4	<0.4	ug/l	15	0.02	no	
Annual	MW4	Potassium	ICP	Annual	2.25	2.25	mg/l	-	5	no	
Annual	MW4	Sulphate	Aquakem auto analyser	Annual	19.4	19.4	mg/l	187.5	200	no	
Annual	MW4	Total Alkalinity	icp	Annual	270	270	mg/l	-		no	
Annual	MW4	Total Phosphorus	spectrophotometry apha	Annual			mg/l	0.09		no	
Annual	MW4	Phenols	GC-MS	Annual	<0.002	<0.002	ug/l		0.5	no	
Annual	MW4	Acenaphthylene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Anthracene	GC-MS	Annual	<1	<1	ug/l		1000	no	
Annual	MW4	Benzene	GC-MS	Annual	<1	<1	ug/l		2	no	

r/Soil monitori	ng template				Lic No:	W0068-03		Year	2017			ı
.173011 IIIOIIIIOIII	ng template	Bromodichlorome		1	LIC IVO.	W0000-03		I Cai	2017			
Annual	MW4	thane	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	Bromoform	GC-MS	Annual	<1	<1	ug/I			no		
Annual	MW4	Chloroform	GC-MS	Annual	<1	<1	ug/l		12	no	1	
Annual	MW4	Chrysene	GC-MS	Annual	<0.02	<0.02	ug/l		12	no	1	
Ailliuai	101004	Dibromochlorome	GC-IVI3	Alliludi	₹0.02	<0.02	ug/1			110		
Annual	MW4	thane	GC-MS	Annual	<1	<1	ug/l		0.03	no		
Annual	MW4	Fluoranthene	GC-MS	Annual	ζ1	ζ1	ug/l		0.03	no		
Annual	MW4	Fluorene	GC-MS	Annual	<1	<1	ug/l		0.1	no		
Annual	MW4	Naphthalene	GC-MS	Annual	<1	<1	ug/l		1	no		
Alliluai	101004	Dibromochlorome	GC-IVI3	Alliludi	ζ1	ζ1	ug/1		1	110	1	
Annual	MW4	thane	GC-MS	Annual	<1	<1	ug/l			no		
Allilual	101 004	Pentachloropheno	GC-IVI3	Alliludi	ζ1	ζ1	ug/i			110	1	
Annual	MW4	I	GC-MS	Annual	<1	<1	ug/l		2	no		
Annual	MW4	Phenanthrene	GC-MS	Annual	<1	<1	ug/l			no	1	
Annual	MW4	Pyrene	GC-MS	Annual	<1	<1	ug/l			no		
Alliluai	101004	ryielle	GC-IVI3	Alliludi	\1	\1	ug/1			110	1	
Annual	MW4	Tetrachloroethene	GC-MS	Annual	<1	<1	ug/I			no		
Alliluai	101004	retracilioroethelle	GC-IVI3	Alliludi	\1	\1	ug/1			110	1	
Annual	MW4	Trichloroethene	GC-MS	Annual	<1	<1	ug/I			no		
Ailliuai	IVIVVT	Hexachlorobenzen	GC IVIS	Aimaai		``	ug/i			110	1	
Annual	MW4	e	GC-MS	Annual		İ	ug/I		0.03	no		
		Hexachlorobutadi	1110	771441		<del> </del>	-01'	1	0.03			
Annual	MW4	ene	GC-MS	Annual	<1	<1	ug/I		0.1	no		
	*****			7.1111.001	'-	1.2	-0/	1	0.1			
		2,4,6-										
Annual	MW4	Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no		
71111001		2,4-	00 1115	71111001	7-		35/1			110		
Annual	MW4	Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no		
				71111001	1-	12	-6/-					
		2,4-										
Annual	MW4	Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	2-Chlorophenol	GC-MS	Annual	<1	<1	ug/l			no		
71111001		2 cinorophenor	00 1115	71111001	7-		35/1			110		
		1,2,4-										
Annual	MW4	trichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no		
						-	. 0,					
		1,2-										
Annual	MW4	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l		10	no		
							- 0,		-			
		1,3-										
Annual	MW4	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no		
							- 0,					
		1,4-										
Annual	MW4	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no		
							_					
		2,4,5-		Ì		İ						
Annual	MW4	Trichlorophenol	GC-MS	Annual		1	ug/l			no		
Annual	MW4	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no		
		2-										
		Chloronaphthalen		ĺ		1						
Annual	MW4	e	GC-MS	Annual	<1	<1	ug/l			no		
		2-										
		Methylnaphthalen		ĺ		1						
Annual	MW4	e	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no		
		4-Bromophenyl										
Annual	MW4	Phenyl Ether	GC-MS	Annual	<1	<1	ug/l			no		
		4-Chloro-3-										
Annual	MW4	methylphenol	GC-MS	Annual	<1	<1	ug/l			no		
		4-Chlorophenyl										
Annual	MW4	phenyl ether	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	4-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no		
										· · · · · · · · · · · · · · · · · · ·		

kr/Soil monitoring template         Lic No:         W0068-03         Year           Annual         MW4         Acenaphthene         GC-MS         Annual         <1         <1         ug/l           Annual         MW4         ne         GC-MS         Annual         <1         <1         ug/l           Annual         MW4         Benzo(a)pyrene         GC-MS         Annual         <1         <1         ug/l	2017	no	1
Annual         MW4         ne         GC-MS         Annual         <1			
Annual         MW4         ne         GC-MS         Annual         <1         <1         ug/l           Annual         MW4         Benzo(a)pyrene         GC-MS         Annual         <1			
Annual MW4 Benzo(a)pyrene GC-MS Annual <1 <1 ug/l		no	
- 010		no	
Benzo(b)fluoranth			
Annual         MW4         ene         GC-MS         Annual         <1         <1         ug/l		no	
Benzo(g, h,i)peryle			
Annual MW4 ne GC-MS Annual <1 <1 ug/l		no	
Benzyl Butyl			
Annual         MW4         Phthalate         GC-MS         Annual         <1         <1         ug/l           Bis(2-         Bis(2- <td< td=""><td></td><td>no</td><td></td></td<>		no	
us(¿² chloroethoxy)met			
Annual MW4 hane GC-MS Annual <0.04 <0.04 ug/l		no	
Annual Mary name Octob Annual Cook Cook Cook Cook		110	
Bis(2-			
Annual MW4 chloroethyl)ether GC-MS Annual <1 <1 ug/l		no	
Bis(2-			
chloroisopropyl)et			
Annual MW4 her GC-MS Annual <1 <1 ug/l		no	
Bis(2-			
ethylhexyl)phthala			
Annual MW4 te GC-MS Annual <1 <1 ug/l		no	
Dibenz(a,h)anthra			
Annual         MW4         cene         GC-MS         Annual         <1         <1         ug/l           Annual         MW4         Dibenzofuran         GC-MS         Annual         <1	_	no	
Annual MW4 Dibenzofuran GC-MS Annual <1 <1 ug/l		no	
Annual MW4 Diethylphthalate GC-MS Annual <1 <1 ug/l		no	
Annual www Decuyphrusiase GC/H3 Annual S1 S1 ug/r		110	
Annual MW4 Butylphthalate GC-MS Annual <1 <1 ug/l	2	no	
Di-fi-	-	110	
Annual MW4 octylphthalate GC-MS Annual <1 <1 ug/l	10	no	
Annual MW4 Diphenylamine GC-MS Annual <1 <1 ug/l	10	no	
Annual MW4 Hexachloroethane GC-MS Annual <1 <1 ug/l		no	
Indeno(1,2,3-			
Annual MW4 c,d)pyrene GC-MS Annual <1 <1 ug/l		no	
Annual MW4 Isophorone GC-MS Annual <1 <1 ug/l		no	
Annual MW4 Nitrobenzene GC-MS Annual <1 <1 ug/l	10	no	
n-Nitrosodi-n-			
Annual         MW4         propylamine         GC-MS         Annual         <1         <1         ug/l           Annual         MW4         Acetone         GC-MS         Annual         <1	_	no no	
Alliudi WW4 Acetolie OC4VI3 Alliudi 11 11 11 11 11 11 11 11 11 11 11 11 11		110	
Annual MW4 Dichloromethane GC-MS Annual <1 <1 ug/l	0.04	no	
Amount of the second of the se	0.04	110	
Annual MW4 Tetrahydrofuran GC-MS Annual <1 <1 ug/l		no	
Annual MW4 Toluene GC-MS Annual <1 <1 ug/l	10	no	
Annual MW4 Xylene-o GC-MS Annual <1 <1 ug/l	10	no	
Dichlorodifluorom			
Annual         MW4         ethane         GC-MS         Annual         <1         <1         ug/l		no	
Annual MW4 Chloromethane GC-MS Annual <1 <1 ug/l		no	
Ethyl			
Chloride/Chloroet			
Annual MW4 hane GC-MS Annual ug/I	-	no	
Annual         MW4         Vinyl Chloride         GC-MS         Annual         <1         <1         ug/l           Annual         MW4         Bromomethane         GC-MS         Annual         ug/l         ug/l	-	no	
Annual MW4 Bromomethane GC-MS Annual ug/l		no	
Annual MW4 romethane GC-MS Annual <1 <1 ug/l	30	no	
Authority WW4 Torrectable GC-W3 Authority C1 V1 Ug/1	30	110	
Ether/Diethyl			
Annual MW4 Ether GC-MS Annual <1 <1 ug/l		no	
-9.			
Annual MW4 11 Dichloroethene GC-MS Annual <1 <1 ug/l		no	
lodomethane/Met			
Annual MW4 hyl lodide GC-MS Annual <1 <1 ug/l		no	
Annual         MW4         Carbon Disulphide         GC-MS         Annual         <1         <1         ug/l		no	
Annual         MW4         Allyl Chloride         GC-MS         Annual         <1         <1         ug/l		no	

Company   Comp	r/Soil monitorin	ag tomplato				Lic No:	W0068-03		Year	2017			1
Property   Property	.17 John Monitorin	ig template	Chilaren akkı i			EIC INO.	VV 00000-03	1	Teal	2017		T	
Marcia						1							
Section   Sect								#					
March   Marc													
Marie   Mari	Annual	MW4		GC-MS	Annual	<1	<1	ug/l		500	no		
March   Marc													
Armid   Mov.   Color   Color   Armid   Color   Color   Armid   Color													
March   Marc	Annual	MW4		GC-MS	Annual	<1	<1	ug/l		30	no		
Annual													
Marcial   Marc	Annual	MW4	dichloroethane	GC-MS	Annual	<1	<1	ug/l			no		
Marcial   Marc			2.2										
More   Mark													
Accord   MANS   Microscheme   Co. Co.   Annual   C.   C.   C.   C.   C.   C.   C.   C	Annual	MW4	dichloropropane	GC-MS	Annual	<1	<1	ug/l			no		
Montage   Mont													
Manual   Mode   Methylecytes   GCAS   Menual   1   1   1   1   1   1   1   1   1						<1	<1						
Manual   Mark   Park   Park   Manual   41   41   18   18   18   19   19   19   19   1													
Annual   Mark   Marce   Marce   Mark   Marce   Ma	Annual	MW4		GC-MS	Annual	<1	<1	ug/I			no		
Montable   Montable													
Annual	Annual	MW4	ane	GC-MS	Annual	<1	<1	ug/I			no		
Annual	Annual	B4)4/4	Mathagadanit-11-	CC MS	Annual		-1	ug II					
Annual   MWW   Colorographies   Coloro	Annuai	IVI VV4	ivietnacryionitrile	GC-IVIS	Annuai	<1	<1	ug/i			no		
Annual   MWW   Colorographies   Coloro			111			1							
Annual   MWW   Christmethale   GC-MS   Annual   C1   C1   Ug/l   From	Angual	NA)4/4		GC MAC	Annual	1	1	110 /1		EOO	no		
Marchan   Marc										300			
Annual   MANN	Aiiiludi	IVI VV4		GC-IVIS	Аппиаг	<1	<1	ug/I	<b>+</b>		110		
Annual MWM Dictoropropere	Annual	MANA		GC.MS	Annual	Ì		110/1			no		
Annual MW4 Delinsopropene GCMS Annual c1 c1 ug/l l l l no no l l l l l l l l l l l l l	Allitudi	101 00 4	retracilloriue	GC-IVI3	Alliudi			ug/I			110		
Annual MW4 Delinsopropene GCMS Annual c1 c1 ug/l l l l no no l l l l l l l l l l l l l			11										
Annual	Annual	NAVA/A		GC MS	Annual	-1	-1	ug/l			no		
Annual MW4 dichloropropose GC-MS Annual <1 <1 ug/l	Allitual	101004	Dicinoropropene	GC-IVI3	Alliudi	(1	<1	ug/i			110		
Annual MW4 dichloropropose GC-MS Annual <1 <1 ug/l	Annual	MMA	1.2 dicloroethane	GC-MS	Annual			ug/l			no		
Annual   MW4	Ailliaai	10100-7	1,2 dicioroctifatic	GC IVIS	Ailliudi			ug/1			110		
Annual   MW4			1.2										
Annual MW4 Diromomethane	Annual	MMA		GC-MS	Annual	-1	<b>~1</b>	ug/l			no		
Methy	Ailliaai	10100-7	dicinoropropane	GC IVIS	Ailliudi	``	- 1	ug/1			110		
Methy	Annual	MW4	Dibromomethane	GC-MS	Annual	-1	<b>~1</b>	ug/l		1	no		
Annual MW4 Methacytize GCMS Annual c1 c1 c1 ug/l 10 no no no no no no no no no no no no no	71111001			00 1115	Ailliudi	1		35/1			110		
Mile	Annual	MW4		GC-MS	Annual	<1	<1	ug/l			no		
Annual MW4 S GC-MS Annual <1 <1 Uug/I			13		7 amadi	12	12	-61					
Annual   MW4   Is   GC-MS   Annual   C1   C1   Ug/l   D1   D0   D0   D0   D0   D0   D0   D0													
Annual MW4 Pentanone GC-MS Annual Ug/l no no no linkny pentanone GC-MS Annual Ug/l no no no linkny pentanone GC-MS Annual Ug/l no no linkny pentanone GC-MS Annual CI CI Ug/l no no linkny pentanone GC-MS Annual CI CI Ug/l no no linkny pentanone GC-MS Annual CI CI Ug/l no no linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS Annual CI CI Ug/l linkny pentanone GC-MS	Annual	MW4		GC-MS	Annual	<1	<1	ug/l		10	no		
Annual MW4 Pentance GC-MS Annual Ug/I			MIBK/4 Methyl 2										
13	Annual	MW4		GC-MS	Annual			ug/l			no		
Annual MW4 rans GC-MS Annual < 1 <1 ug/l			13					_					
Annual MW4 rans GC-MS Annual < 1 <1 ug/l			Dichloropropene,t			1							
Annual   MW4   Methacylate   GC-MS   Annual   C1   C1   Ug/l	Annual	MW4		GC-MS	Annual	1		ug/l			no		
Annual MW4 Trichloroethane GC-MS Annual Ug/I no no													
Annual MW4 Trichloroethane GC-MS Annual	Annual	MW4	Methacrylate	GC-MS	Annual	<1	<1	ug/l			no		
Annual MW4 Trichloroethane GC-MS Annual													
Annual MW4 dichoropropane GC-MS Annual   Ug/l   Dichoropropane GC-MS Annual   Ug/l   Dichoropropane   GC-MS Annual   Dichoropropane   Dichoropropane   GC-MS Annual   Dichoropropane   Dichoro						Ì							
Annual MW4 2-Hexanone GC-MS Annual C	Annual	MW4	Trichloroethane	GC-MS	Annual			ug/l			no		
Annual MW4 2-Hexanone GC-MS Annual C						<u> </u>							
Annual MW4 2-Hexanone GC-MS Annual C1 C1 Ug/I D D D D D D D D D D D D D D D D D D D						Ì							
Annual MW4 dibromoethane GC-MS Annual <1 <1 ug/l 1 no no no no no no no no no no no no no													
Annual MW4 dibromeethane GC-MS Annual <1 <1 ug/l 1 no no no no no no no no no no no no no	Annual	MW4		GC-MS	Annual	ļ		ug/l			no		
Annual MW4 Chlorobenzene GC-MS Annual <1 <1 ug/l 1 no						1							
Annual MW4 tetrachloroethane GC-MS Annual <1 <1 ug/l no no no Annual MW4 Ethylbenzene GC-MS Annual <1 <1 ug/l 10 no no Annual MW4 Xylene P&M GC-MS Annual 10 no no Annual MW4 Styrene GC-MS Annual 10 no no Annual MW4 Styrene GC-MS Annual 10 no no Annual MW4 Styrene GC-MS Annual 10 no no Annual MW4 Styrene GC-MS Annual 10 ug/l 10 no no Annual MW4 Styrene GC-MS Annual 10 ug/l 10 no no MW4 Styrene GC-MS Annual 10 ug/l 10 no no MW4 Isopropylbenzene GC-MS Annual 11 <1 ug/l 11 ug/l 10 no no MW4 Isopropylbenzene GC-MS Annual 11 <1 ug/l 11 ug/l 11 no no MW4 Isopropylbenzene GC-MS Annual 11 <1 ug/l 11 ug/l 11 ug/l 11 no no MW4 Isopropylbenzene GC-MS Annual 11 <1 ug/l 11 ug/l 11 ug/l 11 no no MW4 Isopropylbenzene GC-MS Annual 11 <1 ug/l 11 ug/l 11 ug/l 11 ug/l 11 no no MW4 Isopropylbenzene GC-MS Annual 11 <1 ug/l 11													
Annual         MW4         tetrachloroethane         GC-MS         Annual         <1         ug/l         10         no            Annual         MW4         Ethylbenzene         GC-MS         Annual         <1	Annual	MW4	Chlorobenzene	GC-MS	Annual	<1	<1	ug/l		1	no		
Annual         MW4         tetrachloroethane         GC-MS         Annual         <1         ug/l         10         no            Annual         MW4         Ethylbenzene         GC-MS         Annual         <1						Ì							
Annual         MW4         Ethylbenzene         GC-MS         Annual         <1						1							
Annual         MW4         Xylene P&M         GC-MS         Annual         ug/l         10         no           Annual         MW4         Styrene         GC-MS         Annual         ug/l         no           Annual         MW4         Isopropylbenzene         GC-MS         Annual         <1													
Annual MW4 Styrene GC-MS Annual ug/l no no no Annual ug/l no no no no no no no no no no no no no						<1	<1						
Annual MW4 Isopropylbenzene GC-MS Annual <1 <1 ug/l no				GC-MS						10			
	Annual	MW4	Styrene	GC-MS	Annual			ug/l			no		
	1		I			Ì							
Annual MW4 Bromobenzene GC-MS Annual ug/l no						<1	<1						
	Annual	MW4	Bromobenzene	GC-MS	Annual			ug/l			no		

r/Soil monitori	ng template				Lic No:	W0068-03		Year	2017		1
				1							1
		1,1,2,2-									
Annual	MW4	tetrachloroethane	GC-MS	Annual			ug/l			no	
							_				
		1,2,3-									
Annual	MW4	trichloropropane	GC-MS	Annual	<1	<1	ug/l			no	
		Trans 14 Dichloro									
Annual Annual	MW4 MW4	2 Butene, tran Propylbenzene	GC-MS GC-MS	Annual	<1	<1	ug/l ug/l			no no	
Allitudi	101004	Propyidenzene	GC-IVI3	Annual			ug/i			110	+
Annual	MW4	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no	
71111001		2 cinorotolaciic	GC IVIS	71111001	1.	12	35/1			110	1
Annual	MW4	4-chlorotoluene	GC-MS	Annual			ug/l			no	
		1,3,5-									
Annual	MW4	trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Tert Butyl Benzene	GC-MS	Annual			ug/l			no	+
		1,2,4-									
Annual	MW4	1,2,4- trimethylbenzene	GC-MS	Annual	<1	<1	ug/l	l		no	
74111441		a meen y ibenzene	GC 1115	Ailidai	\1	`1	35/1			110	+
Annual	MW4	sec-butylbenzene	GC-MS	Annual			ug/l	l		no	
							_				
		P									
Annual	MW4	Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	N Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	1,2-dibromo-3-	GC-MS	Annual		.4	/1				
Annual	101004	chloropropane	GC-IVI3	Annual	<1	<1	ug/l			no	+
		1,2,3-									
Annual	MW4	trichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Mecoprop	GC-MS	Annual	<0.04	<0.04	-0/-				_
Annual	MW4	Bentazone	GC-MS	Annual	<0.04	<0.04	ug/l				1
Annual	MW4	Simazine		Annual	<0.01	<0.01	ng/l				
Quarterly	MW7	pН	Meter	Quarterly	7.42	7.22	unit		9.5		
Quarterly	MW7	Temp	Meter	Quarterly					25	no	
		51 6 1 11 11			4040	455			4000		
Quarterly	MW7 MW7	Elec.Conductivity Chlorides	Meter	Quarterly	1813 1649	455 489			1000 250	no	
Quarterly	IVI VV 7	Ammoniacal	titration	Quarterly	1649	489	mg/l		250	no	
Quarterly	MW7	Nitorgen	ISE	Quarterly	119	104	mg/l		6mg/l* (Trigger limit)	no	
Quarterly	MW7	Iron	ICP	Quarterly	29000	9686	ug/l		0.2	no	
Quarterly	MW7	TON	HACH	Quarterly	3.9	3.9	ug/l		No abnormal change	no	
Quarterly	MW7	TOC	TOC analyser	Quarterly	19.7	11.1	mg/l		6mg/l (Tigger limit)	no	
Annual	MW7	Cadmium	ICP	Annual	<0.08	<0.08	ug/l		0.005	no	
Annual	MW7	Chromium (total)	ICP	Annual	14.8	14.8	ug/l		0.03	no	
Annual	MW7	Copper	COLORIMETRY	Annual	<0.3	<0.3	ug/l		0.03	no	
Annual Annual	MW7 MW7	Cyanide (Total) Lead	ICP ICP	Annual Annual	<0.05 <0.2	<0.05 <0.2	ug/l	<del>                                     </del>	0.01 0.01	no	
Annual	MW7	Mangnesium	ICP	Annual	<0.2 27.1	<0.2 27.1	ug/l mg/l		50	no no	
Annual	MW7	Manganese	ICP	Annual	5120	5120	ug/l	1	0.05	no	
Annual	MW7	Mercury	ICP	Annual	<0.01	<0.01	ug/l		0.001	no	
Annual	MW7	Nickle	ICP	Annual	4.18	4.18	ug/l		0.02	no	
Annual	MW7	Potassium	ICP	Annual	65.8	65.8	mg/l		5	no	
			Aquakem auto								
Annual	MW7	Sulphate	analyser	Annual	<2.0	<2.0	mg/l		200	no	
Annual	MW7	Total Alkalinity	icp	Annual	1120	1120	mg/l			no	
1			spectrophotometry								
Annual	MW7	Total Phosphorus	apha	Annual	4.00	4.20	mg/l		0.7	no	
Annual	MW7	Naphthalene	GC-MS	Annual	4.29	4.29	ug/l	-	0.5	no	
Annual	MW7	Acenaphthylene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Anthracene	GC-MS	Annual	<1	<1	ug/l		1000	no	
Annual	MW7	Chrysene	GC-MS	Annual	<1	<1	ug/l		1	no	

er/Soil monitori					Lic No:	W0068-03		Year	2017		
Annual	MW7	Fluoranthene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Fluorene	GC-MS	Annual	<1	<1	ug/I			no	
Annual	MW7	Pyrene	GC-MS	Annual	<0.02	< 0.02	ug/l		12	no	
Annual	MW7	Phenanthrene	GC-MS	Annual	<1	<1	ug/I			no	
		Bromodichlorome									
Annual	MW7	thane	GC-MS	Annual			ug/I			no	
Annual	MW7	Bromoform	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Chloroform	GC-MS	Annual	<1	<1	ug/l			no	
		Dibromochlorome									
Annual	MW7	thane	GC-MS	Annual	<1	<1	ug/l		1	no	
Annual	MW7	Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Chloromethane	GC-MS	Annual	<1	<1	ug/l		2	no	
Annual	MW7	Trichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Bromomethane	GC-MS	Annual	<1	<1	ug/l			no	1
		Trichloromonofluo									1
Annual	MW7	romethane	GC-MS	Annual	<1	<1	ug/l			no	
											1
Annual	MW7	11 Dichloroethene	GC-MS	Annual			ug/l			no	
Annual	MW7	Chloromethane	GC-MS	Annual	<1	<1	ug/l		0.03	no	
		1,1-				_					
Annual	MW7	dichloroethane	GC-MS	Annual	<1	<1	ug/l		0.1	no	
71111001		dicinoroctifatic	GC 1115	Ailitual	- 1		u <sub>B</sub> /.		0.1		
		11									
Annual	MW7	Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no	
Allifudi	IVIVV7	Dictiloroproperie	GC-IVI3	Allitual	\1	\1	ug/1			110	
Annual	MW7	1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no	
Aiiiuai	IVIVV	1,2 diciordetriane	GC-IVI3	Allitudi	\1	\1	ug/1			110	
		1,2-									
Annual	MW7	dichloropropane	GC-MS	Annual	<1	<1	a/I				
Alliudi	IVI VV 7	ulcilloropropalle	GC-IVI3	Alliludi	(1	<1	ug/l			no	
		1,1,1-									
							"				
Annual	MW7	trichloroethane	GC-MS	Annual	<1	<1	ug/l			no	
		112									
Annual	MW7	Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no	
		1,3-					_				
Annual	MW7	dichloropropane	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW7	2-Hexanone	GC-MS	Annual	<1	<1	ug/l			no	
		1,2-									
Annual	MW7	dibromoethane	GC-MS	Annual			ug/l			no	
Annual	MW7	Chlorobenzene	GC-MS	Annual	21	21	ug/l			no	
		1,1,1,2-									
Annual	MW7	tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Xylene O	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Styrene	GC-MS	Annual	<1	<1	ug/l			no	l
					1						
Annual	MW7	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
					1						
		1,1,2,2-			1						
Annual	MW7	tetrachloroethane	GC-MS	Annual	<1	<1	ug/l	L		no	
											1
1		1,2,3-			1						1
Annual	MW7	trichloropropane	GC-MS	Annual	<1	<1	ug/l			no	I
Annual	MW7	Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no	Ī
											1
Annual	MW7	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no	
							-				1
Annual	MW7	4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no	I
		1			İ		J.		İ		1
		1,3,5-			1						
Annual	MW7	trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no	I
		1			İ	<u> </u>	J.		İ		1
Annual	MW7	Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no	

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,		1			Lie No.				1		
Annual	MW7	1,2,4- trimethylbenzene	GC-MS	Annual	5.02	5.02	ug/l			no	
Annual	MW7	sec-butylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
Ailliuai		Pentachloropheno		Allitual			ug/i			110	
Annual	MW7	ı	GC-MS	Annual	<0.04	<0.04	ug/l			no	
Annual	MW7	Tetrachloroethene Hexachlorobenzen	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	e	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Hexachlorobutadi ene	GC-MS	Annual	<1	<1	ug/l			no	
		2,4,6-									
Annual	MW7	Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	2,4- Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
		2,4-									
Annual Annual	MW7 MW7	Dimethylphenol 2-Chlorophenol	GC-MS GC-MS	Annual	<1	<1 <1	ug/l			no no	
Annual	MW7	2-Chlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	1,2,4- trichlorobenzene	GC-MS	Annual	<1	<1	ug/l		2	no	
		1,2-					· U				
Annual	MW7	1,2- dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
		1,3-									
Annual	MW7	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
Ancort	h #14/7	1,4-	CC 145	Annes			us fi				
Annual	MW7	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	2,4,5- Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no	
									40		
Annual	MW7	2,6-Dinitrotoluene 2-	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW7	Chloronaphthalen e	GC-MS	Annual	<1	<1	ug/l			no	
		2-			-		-or-				
Annual	MW7	Methylnaphthalen e	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	2-Methylphenol	GC-MS	Annual	<1	<1	ug/l		0.04	no	
Annual	MW7	2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	4-Bromophenyl Phenyl Ether	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW7	4-Chloro-3- methylphenol	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW7	4-Chlorophenyl phenyl ether	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	4-Nitrophenol	GC-MS	Annual			ug/l			no	
Annual	MW7	Acenaphthene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Benzo(a)anthrace ne	GC-MS	Annual			ug/l			no	
Annual	MW7	Benzo(a)pyrene Benzo(b)fluoranth	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	ene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Benzo(g,h,i)peryle ne	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no	
		_			•						

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		Bis(2-								
		chloroethoxy)met					_			
Annual	MW7	hane	GC-MS	Annual	<1	<1	ug/l			no
		Bis(2-								
Annual	MW7	chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no
74111441		Bis(2-	GC IIIS	74111001	1-	12	35/1			
		chloroisopropyl)et								
Annual	MW7	her	GC-MS	Annual	<1	<1	ug/l			no
		Bis(2-								
		ethylhexyl)phthala								
Annual	MW7	te	GC-MS	Annual	<1	<1	ug/l			no
	14147	Dibenz(a,h)anthra	CC 145	A		.4				
Annual Annual	MW7 MW7	cene Dibenzofuran	GC-MS GC-MS	Annual Annual	<1 <1	<1 <1	ug/l ug/l			no no
Ailliuui	101007	DIDCHZOIGIGH	GC IVIS	Allitual	\1	V1	ug/1			110
Annual	MW7	Diethylphthalate	GC-MS	Annual	<1	<1	ug/l	l	30	no
		di-n-					, and the second			
Annual	MW7	Butylphthalate	GC-MS	Annual	<1	<1	ug/l			no
		Di-n-								
Annual	MW7	octylphthalate	GC-MS	Annual	<1	<1	ug/l			no
Annual	MW7	Diphenylamine	GC-MS	Annual			ug/l			no
Annual	MW7	Hexachloroethane	GC-MS	Annual	-1	-1	ug/l			no
Aminal	IVI VV /	Indeno(1,2,3-	GC-IVIS	Annual	<1	<1	ug/l			no
Annual	MW7	c,d)pyrene	GC-MS	Annual	<1	<1	ug/l			no
Annual	MW7	Isophorone	GC-MS	Annual	<1	<1	ug/l			no
Annual	MW7	Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no
		n-Nitrosodi-n-					_			
Annual	MW7	propylamine	GC-MS	Annual	<1	<1	ug/l		500	no
Annual	MW7	Acetone	GC-MS	Annual			ug/l			no
							_			
Annual	MW7	Dichloromethane	GC-MS	Annual	<3	<3	ug/l			no
Annual	MW7	Tetrahydrofuran	GC-MS	Annual			ug/l			no
Annual	MW7	Toluene	GC-MS	Annual	<1	<1	ug/l			no
Annual	MW7	Xylene -o	GC-MS	Annual	<1	<1	ug/l			no
		Dichlorodifluorom					-61			
Annual	MW7	ethane	GC-MS	Annual	<1	<1	ug/l			no
		Ethyl								
		Chloride/Chloroet								
Annual	MW7	hane	GC-MS	Annual	<1	<1	ug/l			no
		Ethyl								
Annual	MW7	Ether/Diethyl Ether	GC-MS	Annual			ug/l			no
Amidd	IVI VV /	Iodomethane/Met		IBUNIA			ug/1	1		110
Annual	MW7	hyl lodide	GC-MS	Annual			ug/l			no
		,	225				-6/			
Annual	MW7	Carbon Disulphide	GC-MS	Annual	<1	<1	ug/l	<u> </u>		no
Annual	MW7	Allyl Chloride	GC-MS	Annual			ug/l			no
		Chlormethyl								
		Cyanide/Chloroac	66.11				#			
Annual Annual	MW7 MW7	etonitrile Propanenitrile	GC-MS GC-MS	Annual Annual			ug/l			no no
Aminal	IVI VV /	Trans-1,2	GC-IVIS	IBUNIA			ug/l			no
Annual	MW7	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual	MW7	MtBE	GC-MS	Annual	<1	<1	ug/l			no
							, and the second			
		2,2-								
Annual	MW7	dichloropropane	GC-MS	Annual	<1	<1	ug/l		1	no
		cis-12						_		
Annual	MW7	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no
Annual Annual	MW7 MW7	2-Butanone Methyl Acrylate	GC-MS GC-MS	Annual			ug/l	<b> </b>	10	no
Amila	IVI VV /	Bromochlorometh	GC-IVIS	Annual			ug/l		10	no
Annual	MW7	ane	GC-MS	Annual	<1	<1	ug/l	l		no
				7 11111001	·		-01			
Annual	MW7	Methacrylonitrile	GC-MS	Annual			ug/l			no

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Annual	MW7	1-Chlorobutane	GC-MS	Annual			ug/l			no
		Carbon								
Annual	MW7	Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no
Annual	MW7	Dibromomethane	GC-MS	Annual	<1	<1	ug/l			no
		Methyl			-					
Annual	MW7	Methacrylate	GC-MS	Annual			ug/l			no
Ailliuui	101007	13	GC IVIS	Ailliddi			ug/i			110
		Dichloropropene,c								
Annual	MW7	is	GC-MS	Annual	<1	<1	ug/l			no
Alliluai	101007	MIBK/4 Methyl 2	GC-IVI3	Alliludi	(1	(1	ug/i			110
							"			
Annual	MW7	Pentanone	GC-MS	Annual			ug/l			no
		13								
		Dichloropropene,t								
Annual	MW7	rans	GC-MS	Annual	<1	<1	ug/l			no
		Ethyl								
Annual	MW7	Methacrylate	GC-MS	Annual			ug/l			no
Annual	MW7	Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no
		Trans 14 Dichloro						1		
Annual	MW7	2 Butene, tran	GC-MS	Annual			ug/l	<u> </u>		no
		P								
Annual	MW7	Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
Annual	MW7	N Butyl Benzene	GC-MS	Annual	<1	<1	ug/l	I		no
	l	1,2-dibromo-3-	1115		-	*	-0/	1		
Annual	MW7	chloropropane	GC-MS	Annual	<1	<1	ug/l	1		no
Aiiiidai	101007	cinoropropane	GC IVIS	Ailliddi	- 1		ug/i			110
		1,2,3-								
Annual	MW7	trichlorobenzene	GC-MS	A	-4		/1			
				Annual	<1	<1	ug/l			no
Annual	MW7	Mecoprop	GC-MS	Annual	6.56	6.56	ug/l			no
Annual	MW7	Bentazone	GC-MS	Annual	<0.04	<0.04				no
Annual	MW7	Simazine	GC-MS	Annual	<0.01	<0.01	ug/l			no
-	ithmetic mean				7.7	7.475				
	from all monitoring re		ng the reporting year							
nt Groundwate	er monitoring results	•		•	39.7	28.41			•	
										Upward trend in yearly
										average pollutant
Date of	Sample location	Parameter/								concentration over last 5
sampling	reference	Substance	Methodology	Monitoring frequency	10400	7816	unit	GTV's*	SELECT**	years of monitoring data
Quarterly	MW1	pН	Meter	Quarterly	7.3	5.7	unit		9.5	
Quarterly	MW1	Temp	Meter	Quarterly	49	48			25	no
Quarterly	MW1	Elec.Conductivity	Meter	Quarterly	4.8	3.29		1	1000	no
Quarterly	MW1	Chlorides	titration	Quarterly	11	6.5	mg/l	İ	250	no
		Ammoniacal					3		20mg/I* (Trigger	
Quarterly	MW1	Nitorgen	ISE	Quarterly	0.422	0.422	mg/l		limit)	no
Quarterly	MW1	Iron	ICP	Quarterly	<3	<3	ug/l		0.2	no
agout terry				Quanterly	,	,	∽8/ I		U.E	.10
	MW1	TON	HACH	Quarterly	1.09	1.09	ug/I	1	No abnormal change	ro.
		IUN	ПАСП	Quarterly	1.09	1.09	ug/l	-	ivo abilorillai cilange	no
Quarterly						ı		1	i	
			TOC acetimen	0	.0.05	.0.0=	no /1		12mg/L/T!!!- ***	
Quarterly	MW1	TOC	TOC analyser	Quarterly	<0.05	<0.05	mg/l		12mg/l (Tigger limit)	no
			TOC analyser ICP	Quarterly Annual	<0.05 <0.2	<0.05 <0.2	mg/l ug/l		12mg/l (Tigger limit) 0.005	no no
Quarterly Annual	MW1 MW1	TOC Cadmium	ICP	Annual	<0.2	<0.2	ug/I		0.005	no
Quarterly Annual	MW1 MW1	TOC Cadmium Chromium (total)	ICP ICP	Annual Annual	<0.2 638	<0.2 638	ug/l		0.005	no no
Quarterly Annual Annual Annual	MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper	ICP ICP COLORIMETRY	Annual Annual Annual	<0.2 638 5930	<0.2 638 5930	ug/l ug/l ug/l		0.005 0.03 0.03	no no no
Quarterly Annual Annual Annual Annual	MW1 MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper Cyanide (Total)	ICP ICP COLORIMETRY ICP	Annual Annual Annual Annual	<0.2 638 5930 <0.01	<0.2 638 5930 <0.01	ug/l		0.005 0.03 0.03 0.01	no no
Quarterly Annual Annual Annual	MW1 MW1 MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper	ICP ICP COLORIMETRY ICP ICP	Annual Annual Annual	<0.2 638 5930	<0.2 638 5930	ug/l ug/l ug/l		0.005 0.03 0.03	no no no
Quarterly Annual Annual Annual Annual	MW1 MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper Cyanide (Total)	ICP ICP COLORIMETRY ICP	Annual Annual Annual Annual	<0.2 638 5930 <0.01	<0.2 638 5930 <0.01	ug/l ug/l ug/l ug/l		0.005 0.03 0.03 0.01	no no no
Quarterly Annual Annual Annual Annual	MW1 MW1 MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead	ICP ICP COLORIMETRY ICP ICP	Annual Annual Annual Annual Annual Annual	<0.2 638 5930 <0.01 2.14	<0.2 638 5930 <0.01 2.14	ug/l ug/l ug/l ug/l ug/l		0.005 0.03 0.03 0.01 0.01	no no no no
Quarterly Annual Annual Annual Annual Annual Annual Annual	MW1 MW1 MW1 MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium	ICP  COLORIMETRY  ICP  ICP  ICP  ICP	Annual Annual Annual Annual Annual Annual Annual	<0.2 638 5930 <0.01 2.14	<0.2 638 5930 <0.01 2.14 180	ug/l ug/l ug/l ug/l ug/l mg/l		0.005 0.03 0.03 0.01 0.01 50	no no no no no
Quarterly Annual Annual Annual Annual Annual Annual Annual Annual Annual	MW1 MW1 MW1 MW1 MW1 MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese	ICP  ICP  COLORIMETRY  ICP  ICP  ICP  ICP	Annual Annual Annual Annual Annual Annual Annual	<0.2 638 5930 <0.01 2.14 180 984	<0.2 638 5930 <0.01 2.14 180 984	ug/l ug/l ug/l ug/l ug/l mg/l ug/l ug/l		0.005 0.03 0.03 0.01 0.01 50 0.05 0.001	no no no no no no no no no no no
Quarterly Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual	MW1 MW1 MW1 MW1 MW1 MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury	ICP  ICP  COLORIMETRY ICP ICP ICP ICP ICP ICP	Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual	<0.2 638 5930 <0.01 2.14 180 984 455	<0.2 638 5930 <0.01 2.14 180 984 455	ug/I  ug/I  ug/I  ug/I  ug/I  ug/I  ug/I  mg/I  ug/I  ug/I  ug/I		0.005  0.03  0.03  0.01  0.01  50  0.05  0.001  0.02	no no no no no no no no no no no no no n
Quarterly Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual	MW1 MW1 MW1 MW1 MW1 MW1 MW1 MW1 MW1 MW1	TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury Nickle	ICP  ICP  COLORIMETRY  ICP  ICP  ICP  ICP  ICP  ICP  ICP  IC	Annual Annual Annual Annual Annual Annual Annual Annual Annual	<0.2 638 5930 <0.01 2.14 180 984	<0.2 638 5930 <0.01 2.14 180 984	ug/l ug/l ug/l ug/l ug/l mg/l ug/l ug/l		0.005 0.03 0.03 0.01 0.01 50 0.05 0.001	no no no no no no no no no no no

MW1

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Annual	MW1	Total Alkalinity	icp	Annual	<1	<1	mg/l			no	
			spectrophotometry								
Annual	MW1	Total Phosphorus	apha	Annual	<1	<1	mg/l			no	
Annual	MW1	Naphthalene	GC-MS	Annual	<1	<1	ug/l		0.5	no	
		,					Ţ.				
Annual	MW1	Acenaphthylene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Anthracene	GC-MS	Annual	<1	<1	ug/l		1000	no	
Annual	MW1	Chrysene	GC-MS	Annual	<1	<1	ug/l		1	no	
Annual	MW1	Fluoranthene	GC-MS	Annual	<1	<1	ug/l		1	no	
Annual	MW1	Fluorene	GC-MS	Annual	1	**	ug/l			no	
Annual	MW1	Pyrene	GC-MS	Annual	<1	<1	ug/l		12	no	
Annual	MW1	Phenanthrene	GC-MS	Annual	<1	<1			12		
Annuai	IVIVVI		GC-IVIS	Annuai	<1	<1	ug/l			no	
		Bromodichlorome				_					
Annual	MW1	thane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Bromoform	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Chloroform	GC-MS	Annual	<1	<1	ug/l			no	
		Dibromochlorome									
Annual	MW1	thane	GC-MS	Annual	<1	<1	ug/l		1	no	
Annual	MW1	Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Chloromethane	GC-MS	Annual	<1	<1	ug/l		2	no	
Annual	MW1	Trichloroethene	GC-MS	Annual	1	1	ug/l			no	
Annual	MW1	Bromomethane	GC-MS	Annual	<1	<1	ug/l			no	1
		Trichloromonofluo					-6/-				
Annual	MW1	romethane	GC-MS	Annual	<1	<1	ug/l			no	
Ailliuui	101001	Tomediane	GC IVIS	Ailliuui	- 1	1	ug/1			110	
Annual	MW1	11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
									0.00		
Annual	MW1	Chloromethane	GC-MS	Annual	<1	<1	ug/l		0.03	no	
		1,1-									
Annual	MW1	dichloroethane	GC-MS	Annual	<1	<1	ug/l		0.1	no	
		11									
Annual	MW1	Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no	
							<u>.</u>				
		1,2-									
Annual	MW1	dichloropropane	GC-MS	Annual	<1	<1	ug/l			no	
				71111001	12	1-	-6/-				
		1,1,1-									
Annual	MW1	trichloroethane	GC-MS	Annual	<1	<1	ug/l			no	
Alliluai	IVIVVI	tricilloroethalie	GC-IVI3	Alliludi	V1	\1	ug/1			110	
		112									
							"				
Annual	MW1	Trichloroethane	GC-MS	Annual	1	+	ug/l		<b> </b>	no	1
					1						
		1,3-			1						
Annual	MW1	dichloropropane	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW1	2-Hexanone	GC-MS	Annual	<1	<1	ug/l		ļ	no	
		1,2-			1						
Annual	MW1	dibromoethane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
		1,1,1,2-			1						
Annual	MW1	tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Ethylbenzene	GC-MS	Annual	<1	<1	ug/l			no	1
Annual	MW1	Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no	1
Annual	MW1	Xylene O	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Styrene	GC-MS	Annual	<1	<1	ug/l			no	
Aiiiidai	IALAAT	Juliene	GC-IVI3	Antiual	\ <u>`</u>		ug/i		1	110	1
Annual	N 43 A / 1	leanranulhans	CC MC	Annual			a./!				
Annual	MW1	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l		<b> </b>	no	1
		1			1	1					
		1,1,2,2-			ĺ	1					
Annual	MW1	tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no	1
			· · · · · · · · · · · · · · · · · · ·	1	1	1			<u> </u>		1
		1,2,3-									
Annual	MW1	1,2,3- trichloropropane	GC-MS	Annual	<1	<1	ug/l			no	

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,,	Bb	T I				1		1			
Annual	MW1	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	4-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no	
		1,3,5-									
Annual	MW1	trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Tert Butyl Benzene	GC-MS	Annual	<0.04	<0.04	ug/l			no	
							-0,				
Annual	MW1	1,2,4- trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	sec-butylbenzene Pentachloropheno	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	l l	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Tetrachloroethene Hexachlorobenzen	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	e Hexacniorobutadi	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	ene 2,4,6-	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Dimethylphenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	2-Chlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	trichlorobenzene	GC-MS	Annual	<1	<1	ug/l		2	no	
Annual	MW1	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	1,3- dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Z,4,5- Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW1	Z- Chloronaphthalen	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Z- Methylnaphthalen	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	2-Methylphenol	GC-MS	Annual	<1	<1	ug/l		0.04	no	
Annual	MW1	2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	4-Bromopnenyi Phenyl Ether	GC-MS	Annual	-		ug/l		10	no	
Annual	MW1	4-Chioro-3- methylphenol	GC-MS	Annual	<1	<1	ug/l		10	no	
		4-Chlorophenyl			~1	~1			10		
Annual Annual	MW1 MW1	phenyl ether 4-Nitrophenol	GC-MS GC-MS	Annual Annual	<1	<1	ug/l ug/l			no no	
Annual	MW1	Acenaphthene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Benzo(a)anthrace ne	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Benzo(a)pyrene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Benzo(b)fluoranth ene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Benzo(g,h,i)peryle ne	GC-MS	Annual	<1	<1	ug/l			no	
		Benzyl Butyl									
Annual	MW1	Phthalate Bis(2-	GC-MS	Annual	<1	<1	ug/l			no	
Angual	MW1	chloroethoxy)met hane	GC-MS	Annual	_1	<1	ug/l			no.	
Annual	IVIVVI		GC-IVIS	Annual	<1	<1	ug/l			no	
Annual	MW1	Bis(2- chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no	
		, , , , , , , , , , , , , , , , , , , ,				-					l e e e e e e e e e e e e e e e e e e e

r/Cail manitari					Lie No.	W0068 03		Voor	2017		
r/Soil monitorir	ng tempiate	D: /0		1	Lic No:	W0068-03	1	Year	2017	1	-
		Bis(2-									
		chloroisopropyl)et									
Annual	MW1	her	GC-MS	Annual	<1	<1	ug/l			no	4
		Bis(2-									
		ethylhexyl)phthala					_				
Annual	MW1	te	GC-MS	Annual	<1	<1	ug/l			no	
		Dibenz(a,h)anthra									
Annual	MW1	cene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Diethylphthalate	GC-MS	Annual			ug/l		30	no	
		di-n-									ĺ
Annual	MW1	Butylphthalate	GC-MS	Annual	<1	<1	ug/l			no	
		Di-n-									
Annual	MW1	octylphthalate	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Diphenylamine	GC-MS	Annual	<1	<1	ug/l			no	
					-		-0/-				i
Annual	MW1	Hexachloroethane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	IALAAT	Indeno(1,2,3-	GC IVI3	Antiual	^1	``	ug/I	1		110	ı
Annual	MW1		GC-MS	Annual			/l				1
		c,d)pyrene			<1	<1	ug/l			no	ł
Annual	MW1	Isophorone	GC-MS	Annual	ļ		ug/l			no	4
Annual	MW1	Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no	4
		n-Nitrosodi-n-			1	1					
Annual	MW1	propylamine	GC-MS	Annual			ug/l		500	no	1
Annual	MW1	Acetone	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Dichloromethane	GC-MS	Annual	<1	<1	ug/l			no	
											1
Annual	MW1	Tetrahydrofuran	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Toluene	GC-MS	Annual	<1	<1	ug/l			no	1
Annual	MW1	Xylene -o	GC-MS	Annual	``	- 1	ug/l			no	i
Ailliuui	IVIVVI	Dichlorodifluorom	GC IVIS	Allitudi			ug/1			110	i
Annual	MW1	ethane	GC-MS	Annual			//			no	
Annuai	IVIVI		GC-IVIS	Annuai			ug/l			по	4
		Ethyl									
		Chloride/Chloroet					_				
Annual	MW1	hane	GC-MS	Annual	<1	<1	ug/l			no	
		Ethyl									
		Ether/Diethyl									
Annual	MW1	Ether	GC-MS	Annual			ug/l			no	
		Iodomethane/Met									
Annual	MW1	hyl lodide	GC-MS	Annual	1	İ	ug/l			no	1
i											1
Annual	MW1	Carbon Disulphide	GC-MS	Annual	1	İ	ug/l			no	1
Annual	MW1	Allyl Chloride	GC-MS	Annual	<1	<1	ug/l			no	1
		Chlormethyl			İ						1
		Cyanide/Chloroac			1	1					
Annual	MW1	etonitrile	GC-MS	Annual	<1	<1	ug/l			no	1
Annual	MW1	Propanenitrile	GC-MS	Annual	<1	<1	ug/l			no	i
,	******	Trans-1,2	GC 1915	,uui	<del>'</del>	<del>`</del>	~5/¹			110	i
Annual	MW1	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	MtBE	GC-MS	Annual Annual	<1	<1		<b>-</b>	-		ł
Annuai	IVIVVI	IVITBE	GC-IVIS	Annuai	1	<del>                                     </del>	ug/l			no	ł
		2.5			1	1					
		2,2-			ĺ	1	_				
Annual	MW1	dichloropropane	GC-MS	Annual			ug/l		1	no	4
		cis-12			1	1					
Annual	MW1	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	2-Butanone	GC-MS	Annual	l		ug/l		10	no	
Annual	MW1	Methyl Acrylate	GC-MS	Annual			ug/l		10	no	
i		Bromochlorometh									1
Annual	MW1	ane	GC-MS	Annual	<1	<1	ug/l			no	
					· -	<u> </u>	-01.		<b>†</b>		1
Annual	MW1	Methacrylonitrile	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	1-Chlorobutane	GC-MS	Annual	``	``	ug/l			no	i
Alliudi	IVIVVI	Carbon	GC-IVI3	Alliudi	-	-	ug/i			110	ł
	B 43 B / 4		66.146	A		1	()				
Annual	MW1	Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no	4
		[ ]			1	1					
Annual	MW1	Dibromomethane	GC-MS	Annual	l	1	ug/l			no	

r/Soil monitori	ng template				Lic No:	W0068-03		Year	2017	
		Methyl								
Annual	MW1	Methacrylate	GC-MS	Annual	<1	<1	ug/l			no
		13								
		Dichloropropene,c								
Annual	MW1	is	GC-MS	Annual			ug/l			no
		MIBK/4 Methyl 2								
Annual	MW1	Pentanone	GC-MS	Annual	<1	<1	ug/l			no
		13								
		Dichloropropene,t								
Annual	MW1	rans	GC-MS	Annual			ug/l			no
		Ethyl				_	,,			
Annual	MW1 MW1	Methacrylate	GC-MS GC-MS	Annual	<1	<1 <1	ug/l			no
Annual	IVIVVI	Bromobenzene	GC-IVIS	Annual	<1	<1	ug/l			no
		Trans 14 Dichloro								
Annual	MW1	2 Butene, tran	GC-MS	Annual	<1	<1	ug/l			no
Ailliuui	101001	2 butche, trail	GC IVIS	Aillidai	×1	71	ug/1			110
		P								
Annual	MW1	Isopropyltoluene	GC-MS	Annual	<0.04	<0.04	ug/l			no
Annual	MW1	N Butyl Benzene	GC-MS	Annual	< 0.01	< 0.01	ug/l			no
		1,2-dibromo-3-					_			
Annual	MW1	chloropropane	GC-MS	Annual	< 0.01	<0.01	ug/l			no
		1,2,3-								
Annual	MW1	trichlorobenzene	GC-MS	Annual			ug/l			no
Annual	MW1	Mecoprop	GC-MS	Annual	<0.1	<0.1	ug/l			no
Annual	MW1	Bentazone	GC-MS	Annual						no
Annual	MW1	Simazine	GC-MS	Annual	<0.01	<0.01	ug/l			no

r/Soil monitoring template	Lic No:	W0068-03	Year	2017			
##Danced to a control of the other of an advantage to the other control of the other of the other than advantage to the other of the other of the other of the other of the other of the other of the other of the other of the other of the other of the other of the other of the other of the other of the other of the other other of the other of the other of the other of the other of the other of the other of the other of the other of the other other of the other of the other of the other of the other of the other of the other of the other of the other of the other of the other other of the other of t	Overlies about decide also sold	I have and in addition to the CTV and if the site is also at	Surface water	Groundwater	Drinking water (private	Drinking water (public supply)	
**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water			Juliace Water			· · · · · · · · · · · · · · · · · · ·	
surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a d	Irinking water supply com	pare results to the Drinking Water Standards (DWS)	<u>EQS</u>	regulations GTV's	supply) standards	<u>standards</u>	Interim Guideline Values (IGV)
surface water compare to Surface water Environmental Quality Standards (SWEQS), if the site is close to a d	irinking water supply com	ipare results to the Drinking Water Standards (DWS)	<u>EU3</u>	regulations GTV S	supply) stalluarus	stanuarus	interim duideline values (IGV)

ble 3: Soil resu	lts			
Date of	Sample location	Parameter/		

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

# Environmental Liabilities template Lic No: W0068-03 Year 2017

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	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

	<b>Environmental Management Programme/Continuous Improvement Programme</b>	template	Lic No:	W0068-03	Year
	Highlighted cells contain dropdown menu click to view		Additional Inform	nation	_
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes		es sections on use of manual, site location and , 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			

<b>Environmental Management Program</b>	me (EMP) report				
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
			extraction system and		
			operational controls.		
	Maintain number of		Additional flow controls		
	complaints, annually, to		added to existing well heads.		Improved Environmental
Reduction of emissions to Air	less than 2	100	Additional pumping	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 5%	90	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	95	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
	To complete full capping		Designated staff member		
	design of remaining		within Environment staff		
	capping detail to be		selected to investigate		
Capping Design and Infrastructure	installed on Cell 9	25	requirements.	Senior Engineering Management	Waste body profiling design

<b>Environmental Management Progra</b>	mme/Continuous Impr	Lic No:	W0068-03	Year	2017		
	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	ic No:	W0068-03	Year 2017
1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below		Yes	]
2 Was noise monitoring carried out using the EPA Guidance note, including completion of the	Noise Guidance note NG4	Yes	
3 Does your site have a noise reduction plan		No	
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 the survey?	e last noise	No	

Table N1: Noi:	se monitoring su	ımmary									
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	$LA_{eq}$	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
24/11/2017	30 min	N1		47.7	44.1	49	68.6	No	SELECT	Traffic from N25.	Yes
	30 min	N1		48	45.2	49.8	62.5	No		Bird calls audible	Yes
	30 min	N1		48.9	44.8	48.7	80	No		JCB working on site	Yes
	30 min	N2		50.1	47.3	51.9	60.9	No		Very windy during surve	Yes
	30 min	N2		52.3	49.5	53.3	68.4	No		Traffic from N25.	Yes
	30 min	N2		51.1	48.6	53	61.9	No			Yes
	30 min	N3		47.5	44.4	49.5	60.1	No		Noise from N25	Yes
	30 min	N3		45.3	41.5	47.8	59	No		and trees shaking	Yes
	30 min	N3		46.8	43.9	48.6	63.3	No		JCB active onsite	Yes
	30 min	N4		55.2	50	55.3	78.5	No		Traffic N25	Yes
	30 min	N4		51.7	49.4	53.1	62.4	No		Traffic entering and leaving site	Yes
	30 min	N4		50.7	47.6	52.2	70.1	No	_	JCB active onsite	Yes

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

Resource Usage/Energy efficiency summary Lic No: W0068-03 Year 2017

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)

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 Network (LIEN)
Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in

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

Table R1 Energy usag	e on site			
			Production +/- % compared to previous reporting	Energy Consumption +/- % vs overall site
Energy Use	Previous year	•	year**	production*
Total Energy Used (MWHrs)	82.65	83.5	1.00%	
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (N	1WHrs)			
Electricity Consumption (MWHrs)	82.65	83.5	1.00%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0.2	0.2	0%	
Light Fuel Oil (m3)	18	18	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 <sup>3</sup> yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	180	174	-3%	N/A	174	N/A	
Recycled water							
Total	180	174	-3%		174		

\* 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.

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

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

#### Resource Usage/Energy efficiency summary 2017 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% Jan-16 Site management Energy Audit find Ongoing SELECT SELECT

Table R5: Power Generation: Where power is generated onsite (e.g. power generation f	facilities/food and drink industry)please complete the following information
--	--

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

Complaints and	Incidents summary templa	te			Lic No:	W0068-03		Year	2017			
		Complaints										
					Additional inform	ation						
Have you received any environmental complaints in the current reporting year? If yes please complete summary						1						
details of complaints received on site in table 1 below  No												
	actails of complaints recei	ved on site in table 1 below										
			_									
Table 1	1 Complaints summary											
			Brief description of									
			complaint (Free txt <20	Corrective action< 20			Further					
Date	Category	Other type (please specify)	words)	words		Resolution date	information	_				
	SELECT				SELECT			_				
1	SELECT				SELECT			_]				
	SELECT				SELECT							
	SELECT				SELECT							
	SELECT				SELECT							
Total complaints								_				
open at start of												
reporting year												
Total new	<u> </u>	4										
complaints												
received during												
reporting year												
Total complaints		1										
closed during												
reporting year												
Balance of		1										
complaints end of												
reporting year												
		4										
		Incidents										
		Additional inform	ation									
Have any incidents	occurred on site in the current repo	orting year? Please list all incid	ents for current reporting									
	year in Tal	ble 2 below	_	No								
*For information	on on how to report and what											
	nstitutes an incident	What is an incident										
COII	istitutes all liicidelli	What is all incident										
Table 2 Incidents sur	mmary		7									
rable 2 incluents sur	I I I I I I I I I I I I I I I I I I I					Other	Activity in	1	1		Preventative	
			Incident category*please			cause(please	progress at	1		Corrective action<20	action <20	2
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident			t Communication	Occurrence	words	words	
pare of occurrence	SELECT SELECT	SELECT SELECT	SELECT SELECT	SELECT	SELECT SELECT	specify	SELECT SELECT	SELECT	SELECT	WUIUS	worus	
	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		1	
	JEECO	JEECT	JEELC1	JEELCI	JEELCI	I	JEELCI	JELLEI	JEELC1		1	

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

WASTE SUMMARY	Lic No:	W0068-03	Year	2017
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY A	LL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdo	wn list click to see options

ECTION A - SECTOR SPECIFIC PRTP POLITITANTS

	R	ELEASES TO AIR			Please enter all quantities in this	section in KGs			
	POLLUTANT		METHOD				QUANTITY		
			M	ethod Used					
No. Annex II	I Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F	(Fugitive) KG/Year
				Measured through					
				analysis of flare flue					
			ОТН	gas emissions					
J1	Methane (CH4)	M	OTH	monitoring		0.0 53	3530.0	0.0	538530.
				Measured through analysis of flare flue					
				gas emissions					
12	Carbon monoxide (CO)	M	ISO 12039:2001	monitoring		0.0	23.5	0.0	23.
				Measured through					
				analysis of flare flue					
				gas emissions					
03	Carbon dioxide (CO2)	M	ISO 12039:2001	monitoring		0.0 237	5620.0	0.0	2375620.0
				Measured through					
				analysis of flare flue gas emissions					
07	Non-methane volatile organic compounds	M	EN 13649:2001	monitoring		0.0	20.54	0.0	20.54
"	Non-methane volatile organic compounds	IVI	2.1 100 10.2001	Measured through		0.0	20.04	0.0	20.5
				analysis of flare flue					
				gas emissions					
08	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005	monitoring		0.0	382.27	0.0	382.27
				Measured through					
				analysis of flare flue					
	Sudahur auddan (SOU(SOS)	М	EN 14791:2005	gas emissions monitoring		0.0	450.0	0.0	450
11	Sulphur oxides (SOx/SO2)	IVI	EN 14/91:2005	monitoring		0.0	150.0	0.0	150.0

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

#### SECTION B: REMAINING PRTR POLLUTANTS

	R	RELEASES TO AIR			Please enter all quantities in this se	ection in KGs			
	POLLUTANT		METHOD				QUANTITY		
			1	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/Yea	ar
					0.	0	0.0	0.0	0.0

<sup>\*</sup> 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)

SECTION C . REMAINI	NO POLLUTANT LINISSIONS (AS require	ed in your Licence)							
	F	ELEASES TO AIR			Please enter all quantities in this s	ection in KGs	5		
	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) K	G/Year
					C	.0	0.0	0.0	0.0

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

Additional Data Requested from Landfill operators erators are requested to provide summary data on landfill gas (Methane) Landfill: Please enter Youghal Landfill summary data on the quantities of methane flared and / or utilised Designation or Facility Total Capacity m3 per hour T (Total) kg/Year M/C/E Method Code Description Total estimated methane generation (as per site model) 1021748.8 Measured through analysis of flare flue gas emissions 483218.49 nonitoring 1380.0 (Total Flaring Capacity) Methane flared Methane utilised in engine/s 0.0 (Total Utilising Capacity) measured through Net methane emission analysis of flare flue gas emissions (as reported in Section 538530.4 nonitoring A above)

Estate, Glanmire,

Cork,.,Ireland

M Weighed Offsite in Ireland Greenstar Ltd, W0136-01

 WASTE SUMMARY
 Lic No:
 W0068-03
 Year
 2017

			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/Disposer	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of F Destination i.e. Fir 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	C	nineral-based non- chlorinated engine, 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 packaging	R3	М	Weighed	Offsite in Ireland	Greenstar Ltd, W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,,Ireland		
Within the Country	15 01 02	No	25.56 բ	plastic packaging	R5	М	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,.,Ireland		
Within the Country	15 01 04	No	8.2 r	netallic packaging	R4	м	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,.,Ireland		
Within the Country	15 01 07	No	42.34 g	glass packaging	RS	М	Weighed	Offsite in Ireland	Mr. Binman,W0061-01	Luddenmore,Gra nge,Kilmalock,Co Limerick,Ireland	VAMV Adabala	
Within the Country	16 06 01	Yes	0.26 l	ead batteries	R4	м	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappinacur Industrial Estate,Tullamore ,Co	KMK Metals Ltd,W0133- 03,Cappincur Industrial Estate,Tullamore, Co Offlay,,,Ireland	
Within the Country	16 06 02	Yes	0.34 1	Ni-Cd batteries	R4	м	Weighed	Offsite in Ireland	KMK Metals Ltd, W0133-03	Cappinacur Industrial Estate,Tullamore ,Co	KMK Metals Ltd,W0133- 03,Cappincur Industrial Estate,Tullamore, Co Offlay,,,Ireland	
Within the Country	16 06 04	No		alkaline batteries except 16 06 03)	R4	м	Weighed	Offsite in Ireland	KMK Metals Ltd, W0133-03	Cappinacur Industrial Estate,Tullamore ,Co Offlay,.,Ireland		
Within the Country	19 07 03	No		andfill leachate other han those mentioned n 19 07 02	D8	м	Weighed	Offsite in Ireland	Cork County Council,.	Carrigtohill Wastewater Treatment Plant,Tullagreen, Carrigtohill ,Co Cork,Ireland		

80.9 paper and cardboard R3

Within the Country 20 01 01

WASTE SUMMAR	DV			ie Ne.	W0000 02			2047		
WASTE SUIVINA	NT .		Li	ic No:	W0068-03	Ye	ar	2017		
									41-42 Cookstown Industrial Estate,Tallaght,D ublin,D	
Within the Country	20 01 02	No	4.84 glass R	15	M	Veighed Of	fsite in Ireland	MSM Recycling,W0079-01	24,Ireland Glen Abbey	
Within the Country	20 01 11	No	7.6 textiles R	:5	М	Veighed Of	fsite in Ireland	Textile Recycling Ltd, WCP-DC- 08-1225-01	Business Park, Tallaght, Du blin, D24, Ireland Clonminam Industrial Estate, Portlaoise	
Within the Country	20 01 25	No	0.0 edible oil and fat R	9	M	Veighed Of	fsite in Ireland	Enva Ltd,W0184-01	,Co Laois,,,Ireland	
Within the Country	20 01 27	Yes	paint, inks, adhesives and resins containing 4.38 dangerous substances R	1	M V	Veighed Of	fsite in Ireland	Enva Ltd,W0184-01		
			discarded electrical and electronic equipment other than those mentioned in 20 01 21,						Cappinacur Industrial Estate,Tullamore ,Co	
Within the Country	20 01 36	No	117.48 20 01 23 and 20 01 35 R	4	M \	Veighed Of	fsite in Ireland	KMK Metals Ltd,W0133-03	Offlay,,,Ireland Rostellan,Midlet	
Within the Country	20 01 38	No	wood other than that 149.94 mentioned in 20 01 37 R	13	M	Veighed Of	fsite in Ireland	CTO Environmental Solutions Ltd,CK/09/0068/02	on,Co Cork,.,Ireland Pouladuff	
Within the Country	20 01 40	No	76.4 metals R	14	M	Veighed Of	fsite in Ireland	Pouladuff Dismantlers Ltd,CK(S) 478/07	Road,Togher,Cor k ,.,Ireland	
Within the Country	20 02 01	No	0.12 biodegradable waste R	3	M V	Veighed Of	fsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,.,Ireland	
Within the Country	20 03 01	No	516.71 mixed municipal waste D	013	M	Veighed Of	fsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,.,Ireland	
Within the Country	20 03 03	No	128.68 street-cleaning residues D	013	M	Veighed Of	fsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate, Glanmire, Cork, ,, Ireland	
Within the Country	20 03 07	No	464.81 bulky waste D	013	M	Veighed Of	fsite in Ireland	Greenstar Ltd, W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,,Ireland	

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

Were any wastes <u>accepted onto</u> your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is If yes please enter details in table 1 below

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

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

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

	Licenced annual	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -
	onnage limit for your		Source of Waste accepted	· ·	accepted in current	previous reporting year (tonnes)		reduction/increase		treatment operation carried out	waste	Comments
2												
3	site (total				renorting year (tonnec)		previous year +/ -	from provious	wasta has a narbasins	at your site and the description	remaining on	
	tonnes/annum)	European Waste Catalogue EWC codes		European Waste			%			of this operation	site at the end	
	, ,			Catalogue EWC codes			, i				of reporting	

WASTE SUMMARY					Lic No:	W0068-03	Year	2017	
				-	· · · · · · · · · · · · · · · · · · ·				

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

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

4 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

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

8 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 Countil have yet to decide when to fill the remaining void.
Industrial non-haz	27,000	0	180	
Construction&Demoliti on Waste	5,300	0		

SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

# Table 3 General information-Landfill only

	Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated		Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting			Unlined area
											SELECT UNIT	SELECT UNIT	SELECT UNIT
С	ell 9	Dec-08	Temporary Cease Feb 2012	Yes	Public	Non Hazardous	2018	No	No	No	80000	40000	40000

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

WASTE SUMMARY					Lic No:	W0068-03		Year	2017
Was meterological									
monitoring in							Has the statement		
compliance with			Was SW monitored in			Was topography	under S53(A)(5) of		
Landfill Directive (LD)		Was Landfill Gas monitored in	compliance with LD			of the site	WMA been		
standard in reporting	Was leachate monitored in compliance	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	

WASTE SUMMARY				Lic No:	W0068-03		Year	2017	
								All license conditions being met under current monitoring	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	regime	

 $. \\ + please \, refer \, to \, Land fill \, Manual \, linked \, above \, for \, relevant \, Land fill \, Directive \, monitoring \, standards$ 

## Table 5 Capping-Landfill only

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

\*please note this includes daily cover area

## Table 6 Leachate-Landfill only

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

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



9								
10	Volume of leachate in reporting year(m3)			Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum		Specify type of leachate treatment	Comments
								Values are in line
								with than previous
								years due but with a
								decreased volume
								of leachate taken
								off-site. This
								indicates a further
								reduction in the
								parameter results of
								the leachate at
								Youghal Landfill.
								This is attributed to
								the greater capture
								of dilute leachate
	4962.59	873.7	2516	487.9	2013.4	No	System	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			Was surface emissions monitoring performed	
by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	during the reporting year?	Comments
by 21 o bystem inc	Tower generated (MTV/ TEVA)	esect on site of to introduce grid	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-
483218 kg CH4/Annum	0	0	Yes	site maintenance.

 WASTE SUMMARY
 Lic No:
 W0068-03
 Year
 2017

D1 D1-Deposit into or onto land D2 D2-Land treatment

Yes Public No Private

01-WASTE RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS

Comments on liner type

HDPE 1mm liner with geo-textile layer and 0.5m gravel