SELECT	cells that are highlighted blue cor				
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	2016		
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 2016 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 2016. 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	<u>n is assured to meet licence requiremen</u>
	29/03/2017
Signature with authors and a second s	Date
experienced deputy)	

	AIR-summary template	Lic No:	W0068-03	Year	2016
1	Answer all questions and complete all tables where relevant Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you do not need to complete the tables	Yes	,	Additional information	
	Periodic/Non-Continuous Monitoring				
2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	No			
3	Was all monitoring carried out in accordance with EPA guidance monitoring note AG2 and using the basic air monitoring checklist? checklist AGN2	Yes			
	Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)				

Emission			ELV in licence or any revision			Unit of	Compliant with			Comments - reason for change in % mass load from previous year
reference no:	Parameter/ Substance	Frequency of Monitoring		Licence Compliance criteria	Measured value	measurement		Method of analysis		if applicable
reference no.		g	there.		711848		neerice mine	Weened or analysis	iouu (iig)	Annual mass
										load refers to
Flare Stack	Methane (CH4)	Continuous	N/A	SELECT		m3	yes	MAB	485705	difference
					405544					Annual mass
Flana Charle	Cook on district (CO2)	Continuo	N1 / 0	CELECT.		2		100 42020-2004		load refers to
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT	4.00		yes	ISO 12039:2001	/5836/	difference
				No 30min mean can exceed	4.98					
Flare Stack	Carbon monoxide (CO)	Continuous		the ELV		mg/Nm3	yes	ISO 12039:2001	15.47	
	Nitrogen oxides			No 30min mean can exceed	138.02					
Flare Stack	(NOx/NO2)	Annual	<150mg/Nm3	the ELV		mg/Nm3	yes	EN 14792:2005	428.89	
	Sulphur oxides									
Flare Stack	(SOx/SO2)	Annual	N/A		69.73	mg/Nm3	yes	EN 14791:2005	216.68	

AIR-summary template	Lic No:	W0068-03	Year	2016	
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 compa it to its relevant Emission Limit Value (ELV)	re			_	
5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	Yes				
6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes				
Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No				

Table A2: Summary of average emissions -continuous monitoring

Emission	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			81	0	One enclosed	flare operating on site for 2016
	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

	В	ypass	pro	toco
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Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

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

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

Α	IR-summary t	template				Lic No:	W0068-03		Year	2016
	Solvent	use and manageme	nt on site							
Do	you have a tota	l Emission Limit Value of d	SELECT							
		ent Management Pla ssion limit value	n Summary	Solvent regulations	Please refer to linked solver complete table 5			JEECO .		
	Reporting year Total solvent input on site (kg) Total VOC emission to Air from entire site (direct and fugitive)			emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance				
						SELECT				
	Table AF.	Solvent Mass Baland				SELECT				
-	Table A5.	Solvent Iviass Balanc	Le 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)	
				(3)		(**6)	1,000,00		(1.6)	
								Total		

2016

	AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)		Lic No:	W0068-03
				Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections	No		
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections	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	7.78	pH units	yes	Median Vaulue for 2016
SW1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	13.935	degrees C	yes	Median Vaulue for 2016
SW1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	26.23	μS/cm@25oC	yes	Median Vaulue for 2016
SW1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.58	mg/L	yes	Median Vaulue for 2016
SW1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	10271	mg/L	yes	Median Vaulue for 2016. sw1 is infulenced by saline water.
SW1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	1.1	mg/L	yes	Median Vaulue for 2016
SW1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	51.25	mg/L	yes	Median Vaulue for 2016
SW1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	1.18	mg/L	yes	Median Vaulue for 2016
SW1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	17.25	mg/L	ves	Median Vaulue for 2016
SW1	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result
SW1	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<1	mg/L	ves	Annual result
SW1	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		μg/L	yes	Annual result
SW1	upstream	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Iron	Annual	No ELV or trigger levels	N/A	30.4	μg/L	yes	Annual result
SW1	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<1	μg/L	ves	Annual result
SW1	upstream	ceda dila compodita (as i b)	Magnesium	Annual	No ELV or trigger levels	N/A	1081	μg/L mg/L	ves	Annual result
SW1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	14	μg/L	yes	Annual result
SW1	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.5	μg/L	yes	Annual result
SW1	upstream	wercury and compounds (as rig)	Potassium	Annual	No ELV or trigger levels	N/A	388	μg/L mg/L	yes	Annual result. SALINE WATERS
SW1			Sulphate	Annual	No ELV or trigger levels	N/A	1785			Annual result. SALINE WATERS
SW1	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	,	1.92	mg/L	yes	Annual result
SW1	upstream	Zinc and compounds (as Zn)	(ION)	Annual	No ELV or trigger levels	N/A	<25	mg/L	yes	Annual result
SW1	upstream upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A N/A	0.07	μg/L mg/L	yes	Annual result
SW2		rotai priospriorus	-11	Quarterly	No ELV or trigger levels	·			7	Median Vaulue for 2016
SW2	downstream		pH Temperature	Quarterly	No ELV or trigger levels	N/A	7.5	pH units	yes	Median Vaulue for 2016
SW2	downstream		·	Quarterly	No ELV or trigger levels	N/A	13.2	degrees C	yes	Median Vaulue for 2016
SW2	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	10.84	μS/cm@25oC	yes	Median Vaulue for 2016
,	downstream		Dissolved Oxygen			N/A	6.19	mg/L	yes	Median Vaulue for 2016. SW2 is located
SW2	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	3705	mg/L	yes	along the mud bank and is tidal.
SW2	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	3.68	mg/L	yes	Median Vaulue for 2016
SW2	downstream		COD	Quarterly	No ELV or trigger levels	N/A	38	mg/L	yes	Median Vaulue for 2016
SW2	downstream		Ammonia (as N)	Quarterly			3.94	mg/L	yes	Median Vaulue for 2016 Median Vaulue for 2016
SW2 SW2	downstream		Suspended Solids	Quarterly	No ELV or trigger levels		4.5	mg/L	yes	Median Vaulue for 2016 Annual result
SW2	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result
SW2	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<1	mg/L	yes	Annual result
SW2	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		μg/L	yes	Annual result
	downstream		Iron			N/A	148	μg/L	yes	
SW2	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result
SW2	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	430	mg/L	yes	Annual result

in moment	ing returns su	mmary template-WA	IEK/WASIEWAI	EK(SEWEK)		Lic No:	W0068-03		Year	
SW2	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	1001	μg/L	yes	Annual result
SW2	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.5	ue/L	ves	Annual result
SW2	downstream		Potassium	Annual	No ELV or trigger levels	N/A	145	mg/L	ves	Annual result
SW2	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	785	mg/L	ves	Annual result
SW2	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	0.32			Annual result
SW2			(ION)	Annual	No ELV or trigger levels			mg/L	yes	Annual result
SW2	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<25	μg/L	yes	Annual result
SW3	downstream	Total phosphorus		Quarterly	No ELV or trigger levels	N/A	0.31	mg/L	yes	Median Vaulue for 201
SW3	downstream		PH	Quarterly	No ELV or trigger levels	N/A	7.8	pH units	yes	Median Vaulue for 201
SW3	downstream		Temperature			N/A	13.5	degrees C	yes	Median Vaulue for 201
	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	29.1	μS/cm@25oC	yes	
SW3	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.8	mg/L	yes	Median Vaulue for 201 Median Vaulue for 2016. I sloca
SW3	downstream	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	12016	mg/L	yes	sluice gate and is tidal.
SW3	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	0.9	mg/L	yes	Median Vaulue for 201
SW3	downstream		COD	Quarterly	No ELV or trigger levels	N/A	65.75	mg/L	yes	Median Vaulue for 2016
SW3	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	1.80	mg/L	yes	Median Vaulue for 2016
SW3	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	15.25	mg/L	yes	Median Vaulue for 201
SW3	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result
SW3	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	<1	mg/L	yes	Annual result
SW3	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		ug/L	ves	Annual result
SW3	downstream		Iron	Annual	No ELV or trigger levels	N/A	51.9	ug/L	ves	Annual result
SW3	downstream	Lead and compounds (as Pb)	HOII	Annual	No ELV or trigger levels	N/A	<1	μg/L ue/L	yes	Annual result
	downstream	Lead and compounds (as Pb)				N/A	<1	µg/L	yes	Annual result for 2016. EQS lin
SW3	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	1295	mg/L	yes	mg/l.Elevated levels are consis previous years and are due to th of the site.
SW3	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	27.3	μg/L	yes	Annual result
SW3	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.5	μg/L	yes	Annual result
SW3	downstream		Potassium	Annual	No ELV or trigger levels	N/A	435	mg/L	yes	Annual result. SALINE WAT
SW3	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	1970	mg/L	yes	Annual result. SALINE WAT
SW3	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	2.02	mg/L	yes	Annual result
SW3		Zinc and compounds (as Zn)	(ION)	annual	No ELV or trigger levels					Annual result
SW3	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<25	μg/L	yes	Annual result
SW6	downstream	Total phosphorus		Quarterly	No ELV or trigger levels	N/A	-	mg/L	yes	Median Vaulue for 201
SW6	downstream		PH	Quarterly	No ELV or trigger levels	N/A	7.5	pH units	yes	Median Vaulue for 201
SW6	downstream		Temperature	Quarterly		N/A	13.3	degrees C	yes	Median Vaulue for 201
SW6	downstream		Conductivity	-	No ELV or trigger levels	N/A	11.7	mS/cm@25oC	yes	
SWb	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	6.3	mg/L	yes	Median Vaulue for 2010
SW6	downstream	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	4064	mg/L	yes	Median Vaulue for 2016. SW6 i along the mud bank and is
SW6	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	3.95	mg/L	yes	Median Vaulue for 201
SW6	downstream		COD	Quarterly	No ELV or trigger levels	N/A	44	mg/L	yes	Median Vaulue for 201
SW6	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	3.34	mg/L	yes	Median Vaulue for 201
SW6	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	8.25	mg/L	yes	Median Vaulue for 201
SW6		Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1			Annual result
SW6	downstream			Annual	No ELV or trigger levels			μg/L	yes	Annual result
SW6	downstream	Copper and compounds (as Cu)				N/A	<1	mg/L	yes	Annual result
	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		μg/L	yes	
SW6	downstream		Iron	Annual	No ELV or trigger levels	N/A	121	μg/L	yes	Annual result
SW6	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<1	μg/L	yes	Annual result Annual result for 2016.EQS limit
SW6	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	500	mg/L	yes	Elevated results is consistent ar
SW6	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	1019	μg/L	yes	Annual result

P	AER Monitori	ing returns sui	mmary template-WA	TER/WASTEWAT	TER(SEWER)		Lic No:	W0068-03		Year	2016
	SW6	downstream		Potassium	Annual	No ELV or trigger levels	N/A	165	mg/L	yes	Annual result. This is saline water.
Ī	SW6	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	809	mg/L	yes	Annual result. This is saline water.
Ī	SW6	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	1.66	mg/L	yes	Annual result
Ī	SW6	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<25	μg/L	yes	Annual result
Ī	SW6	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.33	mg/L	yes	Annual result
	GA127	onsite		рН	Quarterly	No ELV or trigger levels	N/A	dry	pH units	yes	Median Vaulue for 2016
Ī	GA127	onsite		Temperature	Quarterly	No ELV or trigger levels	N/A	dry	degrees C	yes	Median Vaulue for 2016
Ī	GA127	onsite		Conductivity	Quarterly	No ELV or trigger levels	N/A	dry	μS/cm@25oC	yes	Median Vaulue for 2016
Ī	GA127	onsite	Chlorides (as CI)		Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2016
Ī	GA127	onsite		BOD	Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2016
Ī	GA127	onsite		COD	Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2016
Ī	GA127	onsite		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2016
Ī	GA127	onsite		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	dry	mg/L	yes	Median Vaulue for 2015
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
F	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
F	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
f	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 monitoring		ELV or trigger values in licence or any revision therof Note 2		Measured value	Unit of	Compliant with licence			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 Monitor	ing returns su	mmary template-WA	TER/WASTEWA	TER(SEWER)		Lic No:	W0068-03		Year	2016	
Continuous I	Ü	us emissions to water/sewe	er monitoring?		SELECT		Additional Information		7		
	nmarise your cont n Limit Value (ELV	inuous monitoring data be	low in Table W4 and	compare it to its					_		
table W4 below		nent experience downtime			SELECT SELECT						
below		ur during the reporting yea erage emissions -cont			SELECT				_		
ELV or trigger values in licence or any revision reference no: released to Parameter/Substance thereof Period					Compliance Criteria		Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Equipment	Number of ELV exceedences in reporting year	Comments
	CELECT	CELECT		CELECT	CELECT	CELECT					

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

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	 	Was a report submitted to the	When was this report submitted?
					EPA?	
					SELECT	

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

- 1/-: !:														
Bund/Pipeline tes	sting template				Lic No:	W0068-03		Year	2016	5				
0 11 11	-						Additional information							
Bund testing		dropdown menu c					Only one bund test is required at the	7						
		ntegrity testing on bunds and con					site for the leachate lagoon. The							
containment structure	s on site, in addition to al	II bunds which failed the integrity	test-all bunding structures v	hich failed including mobil	e bunds must be listed in		lagoon is used for storage of							
the table below, please	e include all bunds outsid	de the licenced testing period (mo	bile bunds and chemstore in	:luded)		Yes	leachate prior to transport to local							
1 2 Please provide integrit	y testing frequency perior	d				3 years	leachate phor to transport to local	†						
		erground pipelines (including sto	rmwater and foul), Tanks, sun	ps and containers? (contain	ners refers to "Chemstore"									
3 type units and mobile 4 How many bunds are of						No		+						
		thin the required test schedule?					1	+						
6 How many mobile bun		tilli tile required test scriedule:					1	+						
	included in the bund test	Solubodos				No	1	+						
		sted within the required test sche	-4-1-3			INO	1	+						
			tuule:			-	0	+						
	ite are included in the int					N/A	U	+						
	mps are integrity tested w					N/A		1						
	ntegrity failures in table B					N-		7						
	nbers have high level liqui					No No		+						
		d in a maintenance and testing pr	ogramme?			N/A		+						
s is the Fire Water Reter	ntion Pond included in you	ur integrity test programme?				No		1						
Tab	ble B1: Summary details o	of bund /containment structure in	tegrity test	7										
														Results of
									Integrity reports					retest(if in
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 y
Leachate Lagoon	reinforced concrete	Liner covered concrete	Leachate	2000 m3	1500 m3	Structural assessment		Oct-08	Yes	Pass		SELECT	Jun-18	3
	SELECT			1	1	SELECT								
* Conneity conviced characters					1	SELECT		1	SELECT	SELECT		SELECT		1
	nply with 25% or 110% containmen					SELECT	Commentary	- -	SELECT	SELECT		SELECT		
Has integrity testing be	een carried out in accorda	nt rule as detailed in your licence ance with licence requirements a	nd are all structures tested in				Commentary		SELECT	SELECT		SELECT		
Has integrity testing be 5 line with BS8007/EPA 0	een carried out in accorda Guidance?	ance with licence requirements a	nd are all structures tested in	bunding and storage guidel	lines_	SELECT	Commentary	I	SELECT	SELECT		SELECT		
Has integrity testing be 5 line with BS8007/EPA 0 6 Are channels/transfer	een carried out in accorda Guidance? systems to remote contai	ance with licence requirements an inment systems tested?			lines.	SELECT SELECT	Commentary	<u> </u>	SELECT	SELECT		SELECT		
Has integrity testing be 5 line with BS8007/EPA 0 6 Are channels/transfer	een carried out in accorda Guidance? systems to remote contai	ance with licence requirements a			lines	SELECT	Commentary		SELECT	SELECT		SELECT		
Has integrity testing be 5 line with BS8007/EPA 0 6 Are channels/transfer	een carried out in accorda Guidance? systems to remote contai	ance with licence requirements an inment systems tested?			lines	SELECT SELECT	Commentary		SELECT	SELECT		BEEECI		
Has integrity testing be 5 line with BS8007/EPA 0 6 Are channels/transfer 7 Are channels/transfer	een carried out in accorda Guidance? systems to remote contai	ance with licence requirements an inment systems tested?			lines.	SELECT SELECT	Commentary		SELECT	SELECT		SEEECI		
Has integrity testing be 5 line with BS8007/EPA 6 6 Are channels/transfer 7 Are channels/transfer Pipeline/undergro	een carried out in accorda Guidance? systems to remote contai systems compliant in bot ound structure testing	ance with licence requirements and inment systems tested? The integrity and available volume:	,	bunding and storage guidel		SELECT SELECT SELECT	Commentary		SELECT	SELECT		SEECI		
Has integrity testing be 5 line with BS8007/EPA (6 Are channels/transfer of Are channels/transfer Pipeline/underground Are you required by you	een carried out in accorda Guidance? systems to remote contai systems compliant in bot bound structure testing our licence to undertake in	ance with licence requirements and inment systems tested? th integrity and available volume: ntegrity testing* on underground.	structures e.g. pipelines or su	bunding and storage guidel	out table 2 below listing all	SELECT SELECT SELECT	Commentary		SELECT	SELECT		SEECI		
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Has integrity testing be 5 line with BS8007/EPA of 5 Are channels/transfer 7 Are channels/transfer 8 Pipeline/undergro Are you required by you 1 underground structure 12 Please provide integrit 1	een carried out in accorda Guidance? systems to remote contai systems compliant in bot ound structure testing our licence to undertake in ss and pipelines on site will by testing frequency perior	ance with licence requirements as inment systems tested? th integrity and available volume: ntegrity testing* on underground hick falled the integrity test and d	structures e.g. pipelines or su all which have not been teste	bunding and storage guidel imps etc ? if yes please fill of d withing the integrity test	out table 2 below listing all	SELECT SELECT SELECT	Commentary		SELECT	JSELECT		SELECI		
Has integrity testing be line with BS8007/EPA d Are channels/transfer Are channels/transfer Pipeline/undergrown Are you required by younderground structure 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 ss and pipelines on site will by testing frequency perior	ance with licence requirements ai inment systems tested? th integrity and available volume: ntegrity testing* on underground hich falled the integrity test and	structures e.g. pipelines or su all which have not been teste	bunding and storage guidel imps etc ? if yes please fill of d withing the integrity test	out table 2 below listing all	SELECT SELECT SELECT SELECT	Commentary		SELECT	JSELECT		SEECI		
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Has integrity testing be inne with BS8007/EPA d Are channels/transfer: 7 Are channels/transfer Pipeline/undergro Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	seen carried out in accorda Guidance? systems to remote contail systems compliant in bot bound structure testing our licence to undertake ir as and pipelines on site wi y testing frequency perior testing means water tight	ance with licence requirements ai imment systems tested? th integrity and available volume: antegrity testing* on underground hich failed the integrity test and d tness testing for process and foul	structures e.g. pipelines or sr all which have not been teste pipelines (as required under	bunding and storage guidel imps etc ? If yes please fill if withing the integrity test your licence)	out table 2 below listing all	SELECT SELECT SELECT SELECT	Commentary		SELECT	SELECT		SEECI		
Has integrity testing be inne with BS8007/EPA d Are channels/transfer: 7 Are channels/transfer Pipeline/undergro Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	seen carried out in accorda Guidance? systems to remote contail systems compliant in bot bound structure testing our licence to undertake ir as and pipelines on site wi y testing frequency perior testing means water tight	ance with licence requirements ai imment systems tested? th integrity and available volume: antegrity testing* on underground hich failed the integrity test and d tness testing for process and foul	structures e.g. pipelines or sr all which have not been teste pipelines (as required under	jumps etc ? If yes please fill d withing the integrity test your licence) Type of secondary	out table 2 below listing all	SELECT SELECT SELECT SELECT	Commentary		JSELECT	SELECT		SERCI		
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Has integrity testing be inne with BS8007/EPA d Are channels/transfer: 7 Are channels/transfer Pipeline/undergro Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	seen carried out in accorda Guidance? systems to remote contail systems compliant in bot bound structure testing our licence to undertake ir as and pipelines on site wi y testing frequency perior testing means water tight	ance with licence requirements ai imment systems tested? th integrity and available volume: antegrity testing* on underground hich failed the integrity test and d tness testing for process and foul	structures e.g. pipelines or sr all which have not been teste pipelines (as required under	jumps etc ? If yes please fill d withing the integrity test your licence) Type of secondary	out table 2 below listing all	SELECT SELECT SELECT SELECT SELECT	Commentary				Results of retest(if in current	SERCI		
Has integrity testing be 5 line with BS8007/EPA 6 6 Are channels/transfer 7 7 Are channels/transfer Pipeline/undergre Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity Table	seen carried out in accorda Guidance? Systems to remote contal systems compliant in bot bound structure testing our licence to undertake ir is and pipelines on site wil y testing frequency perio testing means water tight a B2: Summary details of j	ance with licence requirements as imment systems tested? the integrity and available volume: a continuous more and available volume; antegrity testing* on underground hich failed the integrity test and defeated the integrity testing the integrity and available volume.	structures e.g. pipelines or si all which have not been teste pipelines (as required under integrity test Does this structure have	jumps etc ? If yes please fill d withing the integrity test your licence) Type of secondary	out table 2 below listing all period as specified	SELECT SELECT SELECT SELECT SELECT SELECT SELECT		failure explanation	n Corrective action	Scheduled date		SEECI		
Has integrity testing be inne with BS8007/EPA d Are channels/transfer: 7 Are channels/transfer Pipeline/undergro Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity	systems to remote contain systems to remote contain systems to remote contain systems compliant in bot count structure testing the contain systems complete the contained by the country of the contained by the c	ance with licence requirements ai imment systems tested? In integrity and available volume: antegrity testing* on underground hich failed the integrity test and d d the integrity test and dulpipeline/underground structures	structures e.g. pipelines or stall which have not been teste pipelines (as required under integrity test Does this structure have Secondary containment?	jumps etc ? If yes please fill 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				reporting year)	SEECI		
Has integrity testing be 5 line with BS8007/EPA 6 6 Are channels/transfer 7 7 Are channels/transfer Pipeline/undergre Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity Table	seen carried out in accorda Guidance? Systems to remote contal systems compliant in bot bound structure testing our licence to undertake ir is and pipelines on site wil y testing frequency perio testing means water tight a B2: Summary details of j	ance with licence requirements as imment systems tested? the integrity and available volume: a continuous more and available volume; antegrity testing* on underground hich failed the integrity test and defeated the integrity testing the integrity and available volume.	structures e.g. pipelines or si 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 SELECT SELECT		failure explanation	n Corrective action	Scheduled date		SEECI		
Has integrity testing be 5 line with BS8007/EPA 6 6 Are channels/transfer 7 7 Are channels/transfer Pipeline/undergre Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity Table	systems to remote contain systems to remote contain systems to remote contain systems compliant in bot count structure testing the contain systems complete the contained by the country of the contained by the c	ance with licence requirements ai imment systems tested? In integrity and available volume: antegrity testing* on underground hich failed the integrity test and d d the integrity test and dulpipeline/underground structures	structures e.g. pipelines or stall 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	n Corrective action	Scheduled date	reporting year)	SEECI		
Has integrity testing be 5 line with BS8007/EPA 6 6 Are channels/transfer 7 7 Are channels/transfer Pipeline/undergre Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity Table	systems to remote contain systems to remote contain systems to remote contain systems compliant in bot count structure testing the contain systems complete the contained by the country of the contained by the c	ance with licence requirements ai imment systems tested? In integrity and available volume: antegrity testing* on underground hich failed the integrity test and d d the integrity test and dulpipeline/underground structures	structures e.g. pipelines or stall 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	n Corrective action	Scheduled date	reporting year)	SEECI		
Has integrity testing be 5 line with BS8007/EPA 6 6 Are channels/transfer 7 7 Are channels/transfer Pipeline/undergre Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity Table	systems to remote contain systems to remote contain systems to remote contain systems compliant in bot count structure testing the contain systems complete the contained by the country of the contained by the c	ance with licence requirements ai imment systems tested? In integrity and available volume: antegrity testing* on underground hich failed the integrity test and d d the integrity test and dulpipeline/underground structures	structures e.g. pipelines or stall 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	n Corrective action	Scheduled date	reporting year)	SEECI		
Has integrity testing be innew the SS8007/EPA 6 5 Are channels/transfer 7 6 Are channels/transfer 7 7 Are channels/transfer 9 10 Pipeline/undergrow Are you required by yo 1 11 underground structure 1 12 Please provide integrit 1 13 Table 1 14 Table 1 15 Table 1 16 Table 1 17 Table 1 17 Table 1 17 Table 1 16 Table 1 17 Table 1 18	systems to remote contain systems to remote contain systems to remote contain systems compliant in bot count structure testing the contain systems complete the contained by the country of the contained by the c	ance with licence requirements ai imment systems tested? In integrity and available volume: antegrity testing* on underground hich failed the integrity test and d d the integrity test and dulpipeline/underground structures	structures e.g. pipelines or stall 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	n Corrective action	Scheduled date	reporting year)	SEECI		
Has integrity testing be 5 line with BS8007/EPA 6 6 Are channels/transfer 7 7 Are channels/transfer Pipeline/undergre Are you required by yo 1 underground structure 2 Please provide integrit *please note integrity Table	systems to remote contain systems to remote contain systems to remote contain systems compliant in bot count structure testing the contain systems complete the contained by the country of the contained by the c	ance with licence requirements as imment systems tested? In integrity and available volume: antegrity testing* on underground high failed the integrity test and did the integrity test and did the integrity test and did the steeping for process and foul pipeline/underground structures. Material of construction: SELECT	structures e.g. pipelines or stall 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 SELECT Integrity reports maintained on site?	Results of test	failure explanation	n Corrective action	Scheduled date	reporting year)	SEECI		

er/Soil monitoring template	Lic No:	W0068-03	Year	2016

			Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		
2	Are you required to carry out soil monitoring as part of your licence requirements?	no		
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no		Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results 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 Groundwater monitoring 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
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies	,		guarterly with annual parameters attached, while MW2/MW2A/MW3/MW5 are sampled guarterly
	proposed/undertaken for the site	N/A		for quarterly parameters . Licence trigger limits set at MW1 and MW4 for ammonia and TON were
7	Please specify the proposed time frame for the remediation strategy	N/A		not exceeded during 2016. However, trigger limits set at MW7 for ammonia and TON were
8	Is there a licence condition to carry out/update ELRA for the site?	SELECT		exceeded in 2016. It is advised that trigger limits for MW7 be reassessed, as MW7 was redrilled at
9	Has any type of risk assesment been carried out for the site?	yes		a different position in 2013.Quarterly parameters such as conducivity and chlorides limits were
10	Has a Conceptual Site Model been developed for the site?	yes		exceeded frequently during 2016. These exceedences are attributed to the location of the site in
11	Have potential receptors been identified on and off site?	yes		realtion to the estuary and the effect of slaine water on the ground water wells. Overall, ground
12	Is there evidence that contamination is migrating offsite?	no		water results were similiar to previous year

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	7.5	7.4	SELECT	GIVS	9.5	no	
Quarterly	MW4	Temp	Meter	Quarterly	7.5	7	SEEECT		25	no	
Quarterly	10100-7	теттр	IVICECI	Quarterly					23	110	
Quarterly	MW4	Elec.Conductivity	Meter	Quarterly	0.60	0.59		800-1875	1000	no	
Quarterly	MW4	Chlorides	titration	Quarterly	54	41	mg/l	24-187.5	250	no	
		Ammoniacal		·			-				
Quarterly	MW4	Nitorgen	ISE	Quarterly	0.64	0.2	mg/l	0.065-0.175	80mg/I* (Trigger limit)	no	
Quarterly	MW4	Iron	ICP	Quarterly	47.2	14.2	ug/l		0.2	no	
Quarterly	MW4	TON	HACH	Quarterly	5.1	3.73	ug/l	-	No abnormal change	no	
Quarterly	MW4	TOC	TOC analyser	Quarterly	13.6	3.67	mg/l		30mg/I (Tigger limit)	no	
Annual	MW4	Cadmium	ICP	Annual	<1	<1	ug/l	-	0.005	no	
Annual	MW4	Chromium (total)	ICP	Annual	<1	<1	ug/l	37.5	0.03	no	
Annual	MW4	Copper	COLORIMETRY	Annual	<1	<1	ug/l	1500	0.03	no	
Annual	MW4	Cyanide (Total)	ICP	Annual	<0.01	<0.01	ug/l	-	0.01	no	
Annual	MW4	Lead	ICP	Annual	<1	<1	ug/l	18.75	0.01	no	
Annual	MW4	Mangnesium	ICP	Annual	15.1	15.1	mg/l	-	50	no	
Annual	MW4	Manganese	ICP	Annual	0.019	0.019	ug/l	-	0.05	no	
Annual	MW4	Mercury	ICP	Annual	<0.5	<0.5	ug/l	0.75	0.001	no	
Annual	MW4	Nickle	ICP	Annual	1.99	1.99	ug/l	15	0.02	no	
Annual	MW4	Potassium	ICP	Annual	1.76	1.76	mg/l	-	5	no	
Annual	MW4	Sulphate	Aquakem auto analyser	Annual	17	17	mg/l	187.5	200	no	
Annual	MW4	Total Alkalinity	icp	Annual	291	291	mg/l	-	_00	no	
		,	spectrophotometry		-	-	3				
Annual	MW4	Total Phosphorus	apha	Annual	<0.04	<0.04	mg/l	0.09		no	
Annual	MW4	Phenols	GC-MS	Annual	<1	<1	ug/l		0.5	no	
							3				
Annual	MW4	Acenaphthylene	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW4	Anthracene	GC-MS	Annual	<0.01	< 0.01	ug/l		1000	no	
Annual	MW4	Benzene	GC-MS	Annual	<0.01	<0.01	ug/l		2	no	

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T T	•	Bromodichlorome									
Annual	MW4	thane	GC-MS	Annual	< 0.01	<0.01	ug/I			no	
Annual	MW4	Bromoform	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW4	Chloroform	GC-MS	Annual	<0.01	<0.01	ug/l		12	no	
Annual	MW4	Chrysene	GC-MS	Annual	<0.01	< 0.01	ug/l			no	
		Dibromochlorome					Ţ.				
Annual	MW4	thane	GC-MS	Annual	<0.01	<0.01	ug/l		0.03	no	
Annual	MW4	Fluoranthene	GC-MS	Annual	<1	<1	ug/l		0.1	no	
Annual	MW4	Fluorene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Naphthalene	GC-MS	Annual	<1	<1	ug/l		1	no	
		Dibromochlorome									
Annual	MW4	thane	GC-MS	Annual	<1	<1	ug/l			no	
		Pentachloropheno									
Annual	MW4	1	GC-MS	Annual	<1	<1	ug/l		2	no	
Annual	MW4	Phenanthrene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Pyrene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Tetrachloroethene	GC-MS	Annual			ug/l			no	
Annual	MW4	Trichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
		Hexachlorobenzen									
Annual	MW4	e	GC-MS	Annual	<1	<1	ug/l		0.03	no	
		Hexachlorobutadi									
Annual	MW4	ene	GC-MS	Annual	<1	<1	ug/l		0.1	no	
		2,4,6-									
Annual	MW4	Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
		2,4-									
Annual	MW4	Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
		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	
		1,2,4-									
Annual	MW4	trichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
		1,2-									
Annual	MW4	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l		10	no	
		1,3-									
Annual	MW4	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
		1,4-					_				
Annual	MW4	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
]											
1		2,4,5-									
Annual	MW4	Trichlorophenol	GC-MS	Annual			ug/l			no	 1
1 !											
Annual	MW4	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no	 1
1 !											
Annual	MW4	2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l			no	
		2-									
		Chloronaphthalen					n				
Annual	MW4	e	GC-MS	Annual	<1	<1	ug/l			no	
]		2-									
		Methylnaphthalen			ه.	_	n				
Annual	MW4	e	GC-MS	Annual	<1	<1	ug/l			no	
Ann	841474	2 Mathylatara	CC 14C	Ancoral			ue fi				
Annual	MW4	2-Methylphenol	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	2-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no	1
1		4-Bromophenyl		I]	"				
Annual	MW4	Phenyl Ether	GC-MS	Annual	<1	<1	ug/l			no	
		4-Chloro-3-			ه.		0				
Annual	MW4	methylphenol	GC-MS	Annual	<1	<1	ug/l			no	
		4-Chlorophenyl	20.140	Annual	-4		/1				
Annual Annual	MW4 MW4	phenyl ether	GC-MS GC-MS	Annual Annual	<1	<1	ug/l			no	
Annual	IVI VV4	4-Nitrophenol	GC-MS	Annual	<1	<1	ug/l			no	

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	MW4	Acenaphthene	CC 14C				u=n	Teal	2010		
Annual	MW4		GC-MS	Annual	<1	<1	ug/l	1		no	
Annual	MW4	Benzo(a)anthrace	GC-MS	Americal		.4	ug/l				
Annual Annual	MW4	ne Benzo(a)pyrene	GC-MS	Annual Annual	<1 <1	<1 <1	ug/l			no no	
Alliludi	101 004	Benzo(b)fluoranth	GC-IVI3	Alliludi	(1	\1	ug/i			110	+
Annual	MW4	ene	GC-MS	Annual	<1	<1	ug/l			no	
Allitudi	101 00-4	Benzo(g,h,i)peryle	GC-IVI3	Alliludi	\1	\1	ug/1			no	
Annual	MW4	ne	GC-MS	Annual	<1	<1	ug/l			no	
Ailliadi	10100-4	Benzyl Butyl	GC IVIS	Alliludi	\1	\1	ug/1			110	
Annual	MW4	Phthalate	GC-MS	Annual	<1	<1	ug/l			no	
		Bis(2-		7 ii ii dai	,	12	-6/				
		chloroethoxy)met									
Annual	MW4	hane	GC-MS	Annual	<5	<5	ug/l			no	
		Bis(2-									
Annual	MW4	chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no	
ĺ		Bis(2-									
		chloroisopropyl)et									
Annual	MW4	her	GC-MS	Annual	< 0.01	< 0.01	ug/l			no	
		Bis(2-									
		ethylhexyl)phthala									
Annual	MW4	te	GC-MS	Annual	<5	<5	ug/l			no	
		Dibenz(a,h)anthra									
Annual	MW4	cene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Diethylphthalate	GC-MS	Annual	<1	<1	ug/l			no	
		di-n-									
Annual	MW4	Butylphthalate	GC-MS	Annual	<1	<1	ug/l		2	no	
		Di-n-									
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	
	24144	Indeno(1,2,3-	20,140				0				
Annual Annual	MW4 MW4	c,d)pyrene Isophorone	GC-MS GC-MS	Annual Annual	<1 <1	<1 <1	ug/l ug/l			no no	
Annual	MW4	Nitrobenzene	GC-MS	Annual	<1	<1	ug/l		10	no	
Allitudi	101 00-4	n-Nitrosodi-n-	GC-IVI3	Alliludi	(1	<1	ug/1		10	110	
Annual	MW4	propylamine	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Acetone	GC-MS	Annual	<1	<1	ug/l			no	
Ailliadi	10100-4	Accione	GC IVIS	Ailliuul	V1	- 1	ug/1			110	
Annual	MW4	Dichloromethane	GC-MS	Annual	<1	<1	ug/l		0.04	no	
74111441		Diemoromeanane	00 1115	Allitudi	1	- 1			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	
1		Ethyl									
		Chloride/Chloroet									
Annual	MW4	hane	GC-MS	Annual			ug/l			no	
Annual	MW4	Vinyl Chloride	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW4	Bromomethane	GC-MS	Annual			ug/l			no	
		Trichloromonofluo									
Annual	MW4	romethane	GC-MS	Annual	<0.01	<0.01	ug/l		30	no	
		Ethyl									
		Ether/Diethyl									
Annual	MW4	Ether	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW4	11 Dichloroethene	GC-MS	Annual	<0.01	<0.01	ug/l			no	
		Iodomethane/Met				<u> </u>					
Annual	MW4	hyl lodide	GC-MS	Annual	<1	<1	ug/l			no	
T		1 7									
Annual	MW4	Carbon Disulphide	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW4	Allyl Chloride	GC-MS	Annual	<1	<1	ug/l			no	

er/Soil monitorin	ng template				Lic No:	W0068-03		Year	2016			I
, 50	ing template	Chilannashbad			1	1	ı	1001	1		ı	
		Chlormethyl										
		Cyanide/Chloroac										
Annual	MW4	etonitrile	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	Propanenitrile	GC-MS	Annual	<1	<1	ug/l		500	no		
		Trans-1,2										
Annual	MW4	Dichloroethene	GC-MS	Annual	<0.01	<0.01	ug/l			no		
Annual	MW4	MtBE	GC-MS	Annual	<1	<1	ug/l		30	no		
		1,1-										
Annual	MW4	dichloroethane	GC-MS	Annual	<1	<1	ug/l			no		
		2,2-										
Annual	MW4	dichloropropane	GC-MS	Annual	<1	<1	ug/l			no		
74111001		cis-12	00 1115	74111001	12	`-	ug, i			110		
Annual	MW4	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	2-Butanone	GC-MS	Annual	- 1	~1	ug/l			no		
Annual	MW4	Methyl Acrylate	GC-MS	Annual	<1	<1	ug/l			no		
Ailliudi	101004	Bromochlorometh	GC-IVI3	Allitual	V1	\1	ug/i			110		
A	B 414/4		CC MC	A	-0.04	-0.04						
Annual	MW4	ane	GC-MS	Annual	<0.01	<0.01	ug/l			no		
	MW4	Adamba and and the	00.146								1	
Annual	IVIW4	Methacrylonitrile	GC-MS	Annual	<1	<1	ug/l		1	no	-	
1		1			1						1	
1		1,1,1-			1				_			
Annual	MW4	trichloroethane	GC-MS	Annual	<1	<1	ug/l		500	no		
Annual	MW4	1-Chlorobutane	GC-MS	Annual			ug/l			no		
		Carbon										
Annual	MW4	Tetrachloride	GC-MS	Annual			ug/l			no		
		11										
Annual	MW4	Dichloropropene	GC-MS	Annual	<50	<50	ug/l			no		
Annual	MW4	1,2 dicloroethane	GC-MS	Annual			ug/I			no		
		1,2-										
Annual	MW4	dichloropropane	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	Dibromomethane	GC-MS	Annual	<1	<1	ug/l		1	no		
		Methyl										
Annual	MW4	Methacrylate	GC-MS	Annual	<1	<1	ug/l			no		
		13				-	- 0					
		Dichloropropene,c										
Annual	MW4	is	GC-MS	Annual	<1	<1	ug/l		10	no		
74111001		MIBK/4 Methyl 2	00 1113	7 tillidai	7-2	**	ug, i		10	110		
Annual	MW4	Pentanone	GC-MS	Annual			ug/l			no		
74111001		13	00 1113	Ailliuui			ug, i					
		Dichloropropene,t			İ						1	
Annual	MW4	rans	GC-MS	Annual	İ		ug/l			no	1	
Ailliuai	IVI VV*+	Ethyl	GC-IVI3	Milliudi	+	1	ug/i			110	1	
Annual	MW4	Methacrylate	GC-MS	Annual	İ		ug/l			no	1	
Ailliuai	IVI VV*+	wietnaciyiate	GC-IVI3	Milliudi	+	1	ug/i			110	1	
1		112			1						1	
Annual	MW4	Trichloroethane	GC-MS	Annual	1		a/I					
Annual	IVIVV4	munioroetnane	UC-IVIS	Annual	-		ug/l	-		no		
1		1 42			1						1	
1		1,3-		l	1						1	
Annual	MW4	dichloropropane	GC-MS	Annual	ļ		ug/l			no		
Annual	MW4	2-Hexanone	GC-MS	Annual	1		ug/l			no	1	
1 !		1,2-			1							
Annual	MW4	dibromoethane	GC-MS	Annual	<1	<1	ug/l			no	ļ	
Annual	MW4	Chlorobenzene	GC-MS	Annual			ug/l		1	no		
1					1						1	
1		1,1,1,2-			1							
Annual	MW4	tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	Ethylbenzene	GC-MS	Annual	<1	<1	ug/l		10	no		
Annual	MW4	Xylene P&M	GC-MS	Annual			ug/l		10	no		
Annual	MW4	Styrene	GC-MS	Annual			ug/l			no		
					<u> </u>							
Annual	MW4	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no		
Annual	MW4	Bromobenzene	GC-MS	Annual			ug/l			no		

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		1,1,2,2-									
Annual	MW4	tetrachloroethane	GC-MS	Annual			ug/l			no	
		4.0.0									
Americal		1,2,3-	66.446	A1	-4	.4	/1				
Annual	MW4	trichloropropane	GC-MS	Annual	<1	<1	ug/l			no	
		Trans 14 Dichloro									
Annual	MW4	2 Butene, tran	GC-MS	Annual	<1	<1	ug/I			no	
Annual	MW4	Propylbenzene	GC-MS	Annual			ug/l			no	
Annual	MW4	2-chlorotoluene	GC-MS	Annual	<1	<1	ug/l			no	
							_				
Annual	MW4	4-chlorotoluene	GC-MS	Annual			ug/l			no	
		1,3,5-									
Annual	MW4	trimethylbenzene	GC-MS	Annual	<1	<1	ug/I			no	
74111441		a micery ibenzenc	GC IVIS	Ailliudi	1	'1	35,1			110	
Annual	MW4	Tert Butyl Benzene	GC-MS	Annual			ug/l			no	
		,					Ť				
		1,2,4-									
Annual	MW4	trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
		1									
Annual	MW4	sec-butylbenzene	GC-MS	Annual			ug/l			no	
		P									
Annual	MW4	Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no	
Ailliuai	10100-4	isopropyitoidene	GC-IVI3	Ailliudi	\1	- 1	ug/1			110	
Annual	MW4	N Butyl Benzene	GC-MS	Annual			ug/I			no	
		1,2-dibromo-3-									
Annual	MW4	chloropropane	GC-MS	Annual			ug/l			no	
		1,2,3-									
Annual	MW4	trichlorobenzene	GC-MS	Annual			ug/l			no	
Annual											
	MW4	Mecoprop	GC-MS	Annual	<0.1	<0.1	,,				
Annual	MW4	Bentazone	GC-MS GC-MS	Annual			ug/l				
Annual Annual	MW4 MW4	Bentazone Simazine	GC-MS	Annual Annual	<0.01	<0.01	ng/l		0.5		
Annual Annual Quarterly	MW4 MW4 MW7	Bentazone Simazine pH	GC-MS Meter	Annual Annual Quarterly					9.5 25	no	
Annual Annual	MW4 MW4	Bentazone Simazine	GC-MS	Annual Annual	<0.01	<0.01	ng/l		9.5 25	no	
Annual Annual Quarterly	MW4 MW4 MW7 MW7	Bentazone Simazine pH	GC-MS Meter	Annual Annual Quarterly	<0.01	<0.01	ng/l			no	
Annual Annual Quarterly Quarterly	MW4 MW4 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides	GC-MS Meter Meter	Annual Annual Quarterly Quarterly	<0.01 6.8	<0.01 6.75	ng/l		25		
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly	MW4 MW4 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal	GC-MS Meter Meter Meter titration	Annual Annual Quarterly Quarterly Quarterly Quarterly	<0.01 6.8 2.65 149	<0.01 6.75 2.28 113	ng/i unit mg/i		25 1000 250	no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly	MW4 MW4 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen	GC-MS Meter Meter Meter titration	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	<0.01 6.8 2.65 149	<0.01 6.75 2.28 113	ng/i unit mg/i mg/i		25 1000 250 6mg/I* (Trigger limit)	no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	MW4 MW4 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron	Meter Meter Meter titration ISE ICP	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	<0.01 6.8 2.65 149 161 57070	<0.01 6.75 2.28 113 122 14306	ng/I unit mg/I ug/I		25 1000 250 6mg//* (Trigger limit) 0.2	no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	MW4 MW4 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON	Meter Meter Meter Meter titration ISE ICP HACH	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	<0.01 6.8 2.65 149 161 57070 40.2	<0.01 6.75 2.28 113 122 14306 0.1	ng/i unit mg/i mg/i ug/i ug/i		25 1000 250 6mg//* (Trigger limit) 0.2 No abnormal change	no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	MW4 MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON	Meter Meter Meter Itiration ISE ICP HACH TOC analyser	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	<0.01 6.8 2.65 149 161 57070 <0.2 91.5	<0.01 6.75 2.28 113 122 14306 0.1 35.5	ng/i unit mg/i mg/i ug/i ug/i ug/i mg/i		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit)	no no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	MW4 MW4 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON	Meter Meter Meter Meter titration ISE ICP HACH	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	<0.01 6.8 2.65 149 161 57070 40.2	<0.01 6.75 2.28 113 122 14306 0.1	ng/i unit mg/i mg/i ug/i ug/i		25 1000 250 6mg//* (Trigger limit) 0.2 No abnormal change	no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	MW4 MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON	Meter Meter Meter Itiration ISE ICP HACH TOC analyser	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly	<0.01 6.8 2.65 149 161 57070 <0.2 91.5	<0.01 6.75 2.28 113 122 14306 0.1 35.5	ng/i unit mg/i mg/i ug/i ug/i ug/i mg/i		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit)	no no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium	Meter Meter Meter Meter titration ISE ICP HACH TOC analyser ICP	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1	ng/i unit mg/i mg/i ug/i ug/i ug/i ug/i		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005	no no no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total)	GC-MS Meter Meter Meter titration ISE ICP HACH TOC analyser ICP ICP	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 3.21	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1	ng/i unit mg/i mg/i ug/i ug/i ug/i ug/i ug/i		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03	no no no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual Annual Annual Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead	GC-MS Meter Meter Meter titration ISE ICP HACH TOC analyser ICP COLORIMETRY ICP ICP ICP	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual	<0.01 6.8 2.65 149 161 57070 0.2 91.5 <1 3.21 <1 <0.01 <1	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1	ng/i unit mg/i mg/i ug/i		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01	no no no no no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual Annual Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium	GC-MS Meter Meter Meter titration ISE ICP HACH TOC analyser ICP ICP COLORIMETRY ICP ICP ICP ICP ICP	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual Annual Annual	<0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 3.21 <1 <0.01 <1 38.7	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7	ng/i unit mg/i mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50	no no no no no no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual Annual Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese	GC-MS Meter Meter Meter ISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual Annual Annual Annual Annual	<0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 3.21 <1 <0.01 <1 38.7 5.89	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7 5.89	ng/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50 0.05	no no no no no no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury	GC-MS Meter Meter Meter titration ISE ICP HACH TOC analyser ICP COLORIMETRY ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5	ng/i unit mg/i mg/i ug/i	25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50 0.05 0.05	no no no no no no no no no no no		
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Ilea.Conductivity Chlorides Ammoniacal Nitorgen Iron TON Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury Nickle	Meter Meter Meter Meter titration ISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<.0.01 6.8 2.65 149 161 57070 <.0.2 91.5 <1 3.21 <1 <.0.01 <1 38.7 5.89 <.0.5 5.2	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5 5.2	ng/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50 0.05 0.05	no no no no no no no no no no no	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury	GC-MS Meter Meter Meter IISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5	ng/i unit mg/i mg/i ug/i	25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50 0.05 0.05	no no no no no no no no no no no		
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury Nickle Potassium	GC-MS Meter Meter Meter Iss ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<.0.01 6.8 2.65 149 161 57070 <.0.2 91.5 <1 3.21 <1 <.0.01 <1 38.7 5.89 <.0.5 5.2	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5 5.2	mg/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50 0.05 0.05 0.001 0.02 5	no no no no no no no no no no no no no n	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Ilec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON Codmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury Nickle Potassium	Meter Meter Meter Itration ISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<.0.01 6.8 2.65 149 161 57070 <.0.2 91.5 <.1 3.21 <.1 <.0.01 <.1 38.7 5.89 <.0.5 5.2 83.4 <.0.5	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5 5.2 83.4 <0.5	ng/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50 0.05 0.05	no no no no no no no no no no no no no n	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury Nickle Potassium	GC-MS Meter Meter Meter Iss ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<.0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 3.21 <1 <0.001 <1 38.7 5.89 <0.5 5.2 83.4	<.0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 <.1 <.0.01 <.1 38.7 5.89 <.0.5 5.2 83.4	mg/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50 0.05 0.05 0.001 0.02 5	no no no no no no no no no no no no no n	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON Codmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury Nickle Potassium Sulphate Total Alkalinity Total Phosphorus	GC-MS Meter Meter Meter Itration ISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<.0.01 6.8 2.65 149 161 57070 <.0.2 91.5 <.1 3.21 <.1 <.0.01 <.1 38.7 5.89 <.0.5 5.2 83.4 <.0.5	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5 5.2 83.4 <0.5 1432	ng/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.03 0.01 0.01 50 0.05 0.05 0.001 0.05 200	no no no no no no no no no no no no no n	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON Cadmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury Nickle Potassium Sulphate Total Alkalinity	GC-MS Meter Meter Meter ISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<.0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 <.1 <.1 <0.01 <1 5.89 <0.5 5.2 83.4 <0.5 1432	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 <.1 <.0.01 <1 5.89 <0.5 5.2 83.4 <0.5 1432	mg/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.01 0.01 50 0.05 0.05 0.001 0.02 5	no no no no no no no no no no no no no n	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Lead Mangnesium Manganese Mercury Nickle Potassium Sulphate Total Alkalinity Total Phosphorus Naphthalene	GC-MS Meter Meter Meter ISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<.0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 <1 <1 <0.01 <1 38.7 5.89 <0.5 5.2 83.4 <0.5 1432 1.35 <0.01	<.0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 <.1 <.0.01 <1 3.21 <.1 <.0.01 <1 38.7 5.89 <.0.5 5.2 83.4 <.0.5 1432 1.35 <.0.01	mg/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.03 0.01 0.01 50 0.05 0.05 0.001 0.05 200	no no no no no no no no no no no no no n	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Ilea.Conductivity Chlorides Ammoniacal Nitorgen Iron TON Codmium Chromium (total) Copper Cyanide (Total) Lead Mangnesium Manganese Mercury Nickle Potassium Sulphate Total Alkalinity Total Phosphorus Naphthalene Acenaphthylene	GC-MS Meter Meter Meter Itration ISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Cuarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5 5.2 83.4 <0.5 1432 <0.01 <0.01 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.01 <0.01 <0.01 <0.01 <0.01	<0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 3.21 <1 <0.01 <1 38.7 5.89 <0.5 5.2 83.4 <0.5 1432 1.35 <0.01 <0.01	ng/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.03 0.01 0.01 50 0.05 0.05 0.001 0.02 5 200	no no no no no no no no no no no no no n	
Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	MW4 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7 MW7	Bentazone Simazine pH Temp Elec.Conductivity Chlorides Ammoniacal Nitorgen Iron TON TOC Cadmium Chromium (total) Lead Mangnesium Manganese Mercury Nickle Potassium Sulphate Total Alkalinity Total Phosphorus Naphthalene	GC-MS Meter Meter Meter ISE ICP HACH TOC analyser ICP ICP ICP ICP ICP ICP ICP IC	Annual Annual Annual Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Annual	<.0.01 6.8 2.65 149 161 57070 <0.2 91.5 <1 <1 <1 <0.01 <1 38.7 5.89 <0.5 5.2 83.4 <0.5 1432 1.35 <0.01	<.0.01 6.75 2.28 113 122 14306 0.1 35.5 <1 <.1 <.0.01 <1 3.21 <.1 <.0.01 <1 38.7 5.89 <.0.5 5.2 83.4 <.0.5 1432 1.35 <.0.01	mg/i unit mg/i ug/i ug/i ug/i ug/i ug/i ug/i ug/i u		25 1000 250 6mg/l* (Trigger limit) 0.2 No abnormal change 6mg/l (Tigger limit) 0.005 0.03 0.03 0.03 0.01 0.01 50 0.05 0.05 0.001 0.05 200	no no no no no no no no no no no no no n	

er/Soil monitori	ing template				Lic No:	W0068-03		Year	2016		
Annual	MW7	Fluoranthene	GC-MS	Annual	<0.01	<0.01	ug/l		l	no	
Annual	MW7	Fluorene	GC-MS	Annual	<0.01	< 0.01	ug/l			no	i
Annual	MW7	Pyrene	GC-MS	Annual	<0.01	< 0.01	ug/l		12	no	i
Annual	MW7	Phenanthrene	GC-MS	Annual	<0.01	<0.01	ug/l		- 12	no	i
74111441		Bromodichlorome	GC IIIS	7411441	10.01	10.01	ug, :			110	i
Annual	MW7	thane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Bromoform	GC-MS	Annual	<1	<1	ug/l			no	i
Annual	MW7	Chloroform	GC-MS	Annual	<1	<1	ug/l			no	i
74111441		Dibromochlorome	GC IIIS	Ailliudi	1	- 1	ug, :			110	i
Annual	MW7	thane	GC-MS	Annual	<1	<1	ug/l		1	no	
Annual	MW7	Vinyl Chloride	GC-MS	Annual	<1	<1	ug/l		-	no	i
Annual	MW7	Chloromethane	GC-MS	Annual	<1	<1	ug/l		2	no	i
Aiiidai	101007	Cilioroffictuatic	GC IVIS	Ailliudi	1	- 1	ug/1		-	110	i
Annual	MW7	Trichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Bromomethane	GC-MS	Annual	12	12	ug/l			no	i
		Trichloromonofluo		74111001							i
Annual	MW7	romethane	GC-MS	Annual	<1	<1	ug/l			no	
74111441		Tomediane	GC IIIS	Ailliudi	1	- 1	ug, :			110	i
Annual	MW7	11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Chloromethane	GC-MS	Annual	<1	<1	ug/l		0.03	no	i
Ailliudi	101007	1,1-	GC IVIS	Ailliudi	1	`1	ug/1		0.03	110	•
Annual	MW7	dichloroethane	GC-MS	Annual	<1	<1	ug/l		0.1	no	
Ailliudi	101007	ulcilloroctifatic	GC IVIS	Ailliudi		\1	ug/1		0.1	110	•
		11									
Annual	MW7	Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no	
Ailliudi	101007	Dicilioroproperic	GC IVIS	Ailliudi	1	`1	ug/1			110	•
Annual	MW7	1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no	
Ailliudi	101007	1,2 dicioroctriane	GC IVIS	Ailliudi	1	`1	ug/1			110	•
		1,2-									
Annual	MW7	dichloropropane	GC-MS	Annual	<1	<1	ug/l			no	
74111441		истогоргорите	GC IIIS	7411441	12		ug, :			110	i
		1,1,1-									
Annual	MW7	trichloroethane	GC-MS	Annual	<1	<1	ug/l			no	
74111441		tricinoroctilane	GC 1115	74111001	1-					110	i
		112									
Annual	MW7	Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no	
74111441		THE HOTOCULANC	GC IIIS	Ailliudi	1	- 1	ug, :			110	i
		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-					· v			-	
Annual	MW7	dibromoethane	GC-MS	Annual			ug/l			no	
Annual	MW7	Chlorobenzene	GC-MS	Annual	10	10	ug/l			no	Ī
							Ĭ				Ī
		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	Ī
Annual	MW7	Xylene P&M	GC-MS	Annual	12	12	ug/l			no	1
Annual	MW7	Xylene O	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Styrene	GC-MS	Annual	<1	<1	ug/l			no	l
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			no	
	1	1,2,3-				ĺ					
Annual	MW7	trichloropropane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Propylbenzene	GC-MS	Annual	1	1	ug/l			no	
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	
											1
	I	1,3,5-				İ					
Annual	MW7	trimethylbenzene	GC-MS	Annual	2	2	ug/l			no	
											l
Annual	MW7	Tert Butyl Benzene	GC-MS	Annual	1	1	ug/l	<u> </u>		no	

er/Soil monitori	ing template				Lic No:	W0068-03		Year	2016		
	1							1	1		
	1	1,2,4-							ĺ		
Annual	MW7	trimethylbenzene	GC-MS	Annual	18	18	ug/l		1	no	
		,	-				J				
Annual	MW7	sec-butylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
		Pentachloropheno									
Annual	MW7	1	GC-MS	Annual	<5	<5	ug/l			no	
Annual	MW7	Tetrachloroethene	GC-MS	Annual	<1	<1	ug/I			no	
		Hexachlorobenzen									
Annual	MW7	е	GC-MS	Annual	<0.01	<0.01	ug/l			no	
	MW7	Hexachlorobutadi	GC-MS	Annual		<5					
Annual	IVI VV 7	ene	GC-IVI3	Allitudi	<5		ug/l			no	
		2,4,6-									
Annual	MW7	Trichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
		2,4-				-	-8,				
Annual	MW7	Dichlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
	I	2,4-						l	ĺ		
Annual	MW7	Dimethylphenol	GC-MS	Annual	8	8	ug/I			no	
Annual	MW7	2-Chlorophenol	GC-MS	Annual	<1	<1	ug/l			no	
		10.							ĺ		
	1000	1,2,4-	CCAAC	A			/1	l			
Annual	MW7	trichlorobenzene	GC-MS	Annual	<1	<1	ug/l		2	no	
	1	1,2-							ĺ		
Annual	MW7	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l	l	ĺ	no	
Ailliudi	IVIVV/	GICTIO ODCITZCIE	GC-IVI3	Amiliai	*1	~1	ug/I	 	 	110	
	I	1,3-						l	ĺ		
Annual	MW7	dichlorobenzene	GC-MS	Annual	<1	<1	ug/l	l	ĺ	no	
	I	1,4-						l	ĺ		
Annual	MW7	dichlorobenzene	GC-MS	Annual	<1	<1	ug/I			no	
	_							_	<u> </u>		
1		2,4,5-			_				ĺ		
Annual	MW7	Trichlorophenol	GC-MS	Annual	<1	<1	ug/l	-	!	no	
Annual	MW7	2,4-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l	l	ĺ	20	
Allitual	IVI VV /	z,4-Difficiolaene	UC-IVIS	Alliluai	\1	<u> </u>	ug/l		1	no	
Annual	MW7	2,6-Dinitrotoluene	GC-MS	Annual	<1	<1	ug/l	l	10	no	
		2-			**		-or ·	1	1		
	1	Chloronaphthalen							ĺ		
Annual	MW7	e	GC-MS	Annual	<1	<1	ug/l	<u> </u>	<u> </u>	no	
		2-	_								
		Methylnaphthalen							ĺ		
Annual	MW7	e	GC-MS	Annual	3	3	ug/l		ļ	no	
1							,,				
Annual Annual	MW7 MW7	2-Methylphenol 2-Nitrophenol	GC-MS GC-MS	Annual	<1 <1	<1	ug/l		0.04	no	
Annual	IVI VV /	4-Bromophenyl	GC-IVIS	Annual	<1	<1	ug/l	-	-	no	
Annual	MW7	Phenyl Ether	GC-MS	Annual	<1	<1	ug/l	l	10	no	
Milliual	IVI VV /	4-Chloro-3-	GC-IVI3	Allitual	\ <u>1</u>		ug/i		10	110	
Annual	MW7	methylphenol	GC-MS	Annual	<1	<1	ug/l	l	10	no	
	1	4-Chlorophenyl					- 3	İ			
Annual	MW7	phenyl ether	GC-MS	Annual	<1	<1	ug/l		ĺ	no	
Annual	MW7	4-Nitrophenol	GC-MS	Annual			ug/l			no	
Annual	MW7	Acenaphthene	GC-MS	Annual	1.4	1.4	ug/I			no	
	_	Benzo(a)anthrace						_	<u> </u>		
Annual	MW7	ne	GC-MS	Annual	_		ug/l			no	
Annual	MW7	Benzo(a)pyrene	GC-MS	Annual	<0.01	<0.01	ug/l		ļ	no	
An1	1000	Benzo(b)fluoranth	CC 145	Ancoral	40.04	-0.01	ue li	l	ĺ		
Annual	MW7	ene Ponzola h ilpopulo	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW7	Benzo(g,h,i)peryle ne	GC-MS	Annual	<0.01	<0.01	ug/l	l	ĺ	no	
Aiilludi	IVIVV /	Benzyl Butyl	GC-IVIS	Aiiiludi	V0.01	VU.U1	ug/I	1	 	110	
Annual	MW7	Phthalate	GC-MS	Annual	<1	<1	ug/l		ĺ	no	
							-0/				

/Soil monitoring	ng template				Lic No:	W0068-03		Year	2016		
		Bis(2-]					
		chloroethoxy)met									
Annual	MW7	hane	GC-MS	Annual	<1	<1	ug/l			no	
		Die/2									
Annual	MW7	Bis(2-	GC-MS	Annual	<1		ua/l				
Annual	IVIW /	chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no	
		Bis(2-				İ					
Annual	MW7	chloroisopropyl)et her	GC-MS	Annual	<1	<1	ug/l			no	
Allilual	101 00 7	Bis(2-	GC-IVI3	Alliudi	<1	<1	ug/i			110	
		ethylhexyl)phthala									
Annual	MW7	te	GC-MS	Annual	<1	<1	ug/l			no	
Ailliuui	101007	Dibenz(a,h)anthra	GC IVIS	Allifudi	71	- 1	ug/1			110	
Annual	MW7	cene	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW7	Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no	
					-	<u> </u>	ū.	1	İ		
Annual	MW7	Diethylphthalate	GC-MS	Annual	<1	<1	ug/l		30	no	
		di-n-									
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	
		Indeno(1,2,3-									
Annual	MW7	c,d)pyrene	GC-MS	Annual	<0.01	<0.01	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		ļ	ug/l		500	no	
Annual	MW7	Acetone	GC-MS	Annual		ļ	ug/l			no	
Annual	MW7	Dichloromethane	GC-MS	Annual	<50	<50	ug/l			no	
Annual	MW7	Tetrahydrofuran	GC-MS	Annual		ļ	ug/l			no	
Annual	MW7	Toluene	GC-MS	Annual	2	2	ug/l			no	
Annual	MW7	Xylene -o	GC-MS	Annual	<1	<1	ug/l			no	
		Dichlorodifluorom		I		1					
Annual	MW7	ethane	GC-MS	Annual	<1	<1	ug/l			no	
		Ethyl Chlorida (Chlorost				İ					
	14147	Chloride/Chloroet	20,140	A							
Annual	MW7	hane Ethyl	GC-MS	Annual	<1	<1	ug/l	-		no	
		Ethyl Ethor/Diathyl				1					
Annual	MW7	Ether/Diethyl Ether	GC-MS	Annual			ug/l			no	
Aimiddi	IVI VV /	Iodomethane/Met	GC-IVIS	Alifual		 	ug/1	+		110	
Annual	MW7	hyl lodide	GC-MS	Annual		İ	ug/l			no	
Allitual	191997	Hyr louide	GC-IVI3	Milliudi		 	ug/1			110	
Annual	MW7	Carbon Disulphide	GC-MS	Annual			ug/l			no	
Annual	MW7	Allyl Chloride	GC-MS	Annual		+	ug/I			no	
	****	Chlormethyl				1	or ·		1		
		Cyanide/Chloroac				İ					
Annual	MW7	etonitrile	GC-MS	Annual		İ	ug/l			no	
Annual	MW7	Propanenitrile	GC-MS	Annual			ug/l			no	
		Trans-1,2									
Annual	MW7	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	MtBE	GC-MS	Annual			ug/l			no	
		2,2-				İ					
Annual	MW7	dichloropropane	GC-MS	Annual	<1	<1	ug/l	L	1	no	
Ì		cis-12									
Annual	MW7	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	2-Butanone	GC-MS	Annual			ug/l		10	no	
Annual	MW7	Methyl Acrylate	GC-MS	Annual			ug/l		10	no	
		Bromochlorometh									
Annual	MW7	ane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW7	Methacrylonitrile	GC-MS	Annual		<u> </u>	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
		13								
		Dichloropropene,c								
Annual	MW7	is	GC-MS	Annual	<1	<1	ug/l			no
		MIBK/4 Methyl 2					_			
Annual	MW7	Pentanone	GC-MS	Annual			ug/l			no
		13								
		Dichloropropene,t								
Annual	MW7	rans	GC-MS	Annual	<1	<1	ug/l			no
Annual	MW7	Ethyl Methacrylate	GC-MS							
Annual	MW7	Bromobenzene	GC-MS	Annual Annual	<1	<1	ug/l ug/l			no no
Alliudi	IVI VV 7	Bromobenzene	GC-IVI3	Allitudi	<1	1	ug/1			110
		Trans 14 Dichloro								
Annual	MW7	2 Butene, tran	GC-MS	Annual			ug/l			no
Aimuui	101007	2 Butche, trail	GC IVIS	Ailliudi			ug/1			110
		Р								
Annual	MW7	Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no
							Ĭ			
Annual	MW7	N Butyl Benzene	GC-MS	Annual			ug/l			no
		1,2-dibromo-3-								
Annual	MW7	chloropropane	GC-MS	Annual			ug/l			no
		1,2,3-								
Annual	MW7	trichlorobenzene	GC-MS	Annual			ug/l			no
Annual	MW7	Mecoprop	GC-MS	Annual	8.7	8.7	ug/l			no
Annual	MW7	Bentazone	GC-MS	Annual						no
Annual	MW7	Simazine	GC-MS	Annual	<0.01	<0.01	ug/l			no
ge indicates ari	thmetic mean									

concentration from all monitoring results produced during the reporting year

ent Groundwater monitoring results

iit Giounuwat	er monitoring results									
Date of	Sample location	Parameter/				Average		07.4.4	0515070	Upward trend in yearly average pollutant concentration over last 5
sampling	reference	Substance	Methodology		Maximum Concentration	Concentration	unit	GTV's*	SELECT**	years of monitoring data
Quarterly	MW1	pН	Meter	Quarterly	7.5	7.5	unit		9.5	
Quarterly	MW1	Temp	Meter	Quarterly					25	no
Quarterly	MW1	Elec.Conductivity	Meter	Quarterly	26.1	25.65			1000	no
Quarterly	MW1	Chlorides	titration	Quarterly	9905	9701	mg/l		250	no
Quarterly	MW1	Ammoniacal Nitorgen	ISE	Quarterly	17.6	9.3475	mg/l		20mg/I* (Trigger limit)	no
Quarterly	MW1	Iron	ICP	Quarterly	220	55	ug/l		0.2	no
Quarterly	MW1	TON	HACH	Quarterly	<3.0	0.54	ug/l		No abnormal change	no
Quarterly	MW1	тос	TOC analyser	Quarterly	28.2	8.6	mg/l		12mg/l (Tigger limit)	no
Annual	MW1	Cadmium	ICP	Annual	<1	<1	ug/l		0.005	no
Annual	MW1	Chromium (total)	ICP	Annual	1.2	1.2	ug/l		0.03	no
Annual	MW1	Copper	COLORIMETRY	Annual	1.72	1.72	ug/l		0.03	no
Annual	MW1	Cyanide (Total)	ICP	Annual	< 0.01	< 0.01	ug/l		0.01	no
Annual	MW1	Lead	ICP	Annual	<1	<1	ug/l		0.01	no
Annual	MW1	Mangnesium	ICP	Annual	766	766	mg/l		50	no
Annual	MW1	Manganese	ICP	Annual	6.33	6.33	ug/l		0.05	no
Annual	MW1	Mercury	ICP	Annual	<0.5	<0.5	ug/l		0.001	no
Annual	MW1	Nickle	ICP	Annual	2.33	2.33	ug/l		0.02	no
Annual	MW1	Potassium	ICP	Annual	242	242	mg/l		5	no
Annual	MW1	Sulphate	Aquakem auto	Annual	945	945	mg/I		200	no

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Annual	MW1	Total Alkalinity	icp	Annual	675	675	mg/l			no	
			spectrophotometry								
Annual	MW1	Total Phosphorus	apha	Annual	0.33	0.33	mg/l			no	
Annual	MW1	Naphthalene	GC-MS	Annual	<0.01	< 0.01	ug/l		0.5	no	
Annual	MW1	Acenaphthylene	GC-MS	Annual	< 0.01	< 0.01	ug/l			no	
Annual	MW1	Anthracene	GC-MS	Annual	< 0.01	< 0.01	ug/l		1000	no	
Annual	MW1	Chrysene	GC-MS	Annual	< 0.01	<0.01	ug/l		1	no	
Annual	MW1	Fluoranthene	GC-MS	Annual	< 0.01	< 0.01	ug/l			no	
Annual	MW1	Fluorene	GC-MS	Annual	< 0.01	< 0.01	ug/l			no	
Annual	MW1	Pyrene	GC-MS	Annual	< 0.01	< 0.01	ug/l		12	no	
Annual	MW1	Phenanthrene	GC-MS	Annual	< 0.01	< 0.01	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	1
	1				·-	-	or.		i -		1
Annual	MW1	Trichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Bromomethane	GC-MS	Annual			ug/l			no	1
7		Trichloromonofluo		7.1.71001			∞5/1			.10	1
Annual	MW1	romethane	GC-MS	Annual	<1	<1	ug/l			no	
Ailliaai	INIAAT	Tomediane	GC IVID	Ailliuui	- 1		ug/1			110	1
Annual	MW1	11 Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Chloromethane	GC-MS	Annual	<1	<1	ug/l		0.03	no	
Allitudi	101001	1,1-	GC-IVI3	Allitudi	\1	\1	ug/1		0.03	110	
Annual	MW1	dichloroethane	GC-MS	Annual	<1	<1	ug/l		0.1	no	
Allitudi	IVIVVI	ulchioroethane	GC-IVI3	Alliludi	ζ1	\1	ug/1		0.1	110	
		11									
Annual	MW1	Dichloropropene	GC-MS	Annual	<1	<1	ug/l			no	
		40.00									
Annual	MW1	1,2 dicloroethane	GC-MS	Annual	<1	<1	ug/l			no	
		4.0									
		1,2-									
Annual	MW1	dichloropropane	GC-MS	Annual	<1	<1	ug/l			no	
		1,1,1-									
Annual	MW1	trichloroethane	GC-MS	Annual	<1	<1	ug/l			no	
		112									
Annual	MW1	Trichloroethane	GC-MS	Annual	<1	<1	ug/l			no	
1			1								
I	Ì	1,3-	İ								
Annual	MW1	dichloropropane	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW1	2-Hexanone	GC-MS	Annual	<1	<1	ug/l			no	
I	Ì	1,2-	İ								
Annual	MW1	dibromoethane	GC-MS	Annual			ug/l			no	
Annual	MW1	Chlorobenzene	GC-MS	Annual	<1	<1	ug/l			no	
1			1								
1		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	
Annual	MW1	Xylene P&M	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Xylene O	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Styrene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Isopropylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
											1
1		1,1,2,2-	1								
Annual	MW1	tetrachloroethane	GC-MS	Annual	<1	<1	ug/l			no	
					-	-	-0.				1
1	Ì	1,2,3-	İ								
Annual	MW1	trichloropropane	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Propylbenzene	GC-MS	Annual	<1	<1	ug/l			no	1
		,					-o ·				1

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1		1				1		1	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	
Annual	MW1	1,3,5- trimethylbenzene	GC-MS	Annual	<1	<1	ug/I			no	
Annual	MW1	Tert Butyl Benzene	GC-MS	Annual	<1	<1	ug/l			no	
		1,2,4-									
Annual	MW1	trimethylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	sec-butylbenzene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Pentacnioropneno I	GC-MS	Annual	<5	<5	ug/l			no	
Annual	MW1	Tetrachloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Hexacnioropenzen	GC-MS			<0.01					
		e Hexachiorobutadi		Annual	<0.01		ug/l			no	
Annual	MW1	ene 2,4,6-	GC-MS	Annual	<5	<5	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/I		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	1,4- 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	2- 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		<1	<1	ug/l		0.04	no	
				Annual					0.04		
Annual	MW1	2-Nitrophenol 4-Bromophenyl	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Phenyl Ether 4-Chloro-3-	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW1	methylphenol 4-Chlorophenyl	GC-MS	Annual	<1	<1	ug/l		10	no	
Annual	MW1	phenyl ether	GC-MS	Annual	<1	<1	ug/l			no	
Annual Annual	MW1 MW1	4-Nitrophenol Acenaphthene	GC-MS GC-MS	Annual Annual	<0.01	<0.01	ug/l			no	
IBUNIIA	IVIVVI	Benzo(a)anthrace	GC-IVIS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW1 MW1	ne Panaa(a)nirana	GC-MS GC-MS	Annual	20.04	z0.04	ug/l			no	
Annual	IVIVVI	Benzo(a)pyrene Benzo(b)fluoranth	GC-IVIS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW1	ene Benzo(g,h,i)peryle	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW1	ne	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW1	Benzyl Butyl Phthalate	GC-MS	Annual	<1	<1	ug/l			no	
74111441		Bis(2-	305	7411461			۰۵٬				
Annual	MW1	chloroethoxy)met hane	GC-MS	Annual	<1	<1	ug/l			no	
7	******		GC IVID	70.11001	1,1	,	~5/1			0	
Annual	MW1	Bis(2- chloroethyl)ether	GC-MS	Annual	<1	<1	ug/l			no	
				/ 1111001			-or				

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/ Son monitorii	ing template	Bis(2-			I Lic 140.	1		Tear	2010	1	1
		chloroisopropyl)et									
Annual	MW1	her	GC-MS	Annual	<1	<1	ug/l			no	
Allitudi	IVIVVI	Bis(2-	GC-IVI3	Alliludi	<1	- 1	ug/i			110	
		ethylhexyl)phthala									
Annual	MW1	te	GC-MS	Annual	<1	<1	ug/l			no	
74111441		Dibenz(a,h)anthra	00 1115	7411001	12	1-	ug, i			110	1
Annual	MW1	cene	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Annual	MW1	Dibenzofuran	GC-MS	Annual	<1	<1	ug/l			no	
						_	-87				1
Annual	MW1	Diethylphthalate	GC-MS	Annual	<1	<1	ug/I		30	no	
		di-n-					- 0				1
Annual	MW1	Butylphthalate	GC-MS	Annual	<1	<1	ug/I			no	
		Di-n-					Ť				1
Annual	MW1	octylphthalate	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Diphenylamine	GC-MS	Annual			ug/l			no	
Annual	MW1	Hexachloroethane	GC-MS	Annual	<1	<1	ug/I			no	
		Indeno(1,2,3-									1
Annual	MW1	c,d)pyrene	GC-MS	Annual	<0.01	< 0.01	ug/l			no	
Annual	MW1	Isophorone	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Nitrobenzene	GC-MS	Annual	<1	<1	ug/l			no	
		n-Nitrosodi-n-			1						
Annual	MW1	propylamine	GC-MS	Annual			ug/l		500	no	
Annual	MW1	Acetone	GC-MS	Annual			ug/I			no	
		1			<u> </u>			I			
Annual	MW1	Dichloromethane	GC-MS	Annual	<50	<50	ug/I			no	
Annual	MW1	Tetrahydrofuran	GC-MS	Annual			ug/l			no	
Annual	MW1	Toluene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Xylene -o	GC-MS	Annual	<1	<1	ug/l			no	
		Dichlorodifluorom			1 .						
Annual	MW1	ethane	GC-MS	Annual	<1	<1	ug/l			no	
		Ethyl			1						
		Chloride/Chloroet	66	l							
Annual	MW1	hane	GC-MS	Annual	<1	<1	ug/l			no	
		Ethyl									
Ann	B.43444	Ether/Diethyl	20.140	An1			v = 0				
Annual	MW1	Ether lodomethane/Met	GC-MS	Annual	-		ug/l			no	1
Annual	NA)A/1		CC MS	Annual			/1				
Alliludi	MW1	hyl lodide	GC-MS	Alliudi	+	1	ug/l			no	1
Annual	MW1	Carbon Disulphide	GC-MS	Annual			ug/l			no	
Annual	MW1	Allyl Chloride	GC-MS	Annual	 		ug/I	+		no	1
Allitual	IAIAAT	Chlormethyl	GC-IVI3	Ailliuai	 		ug/i	+		110	1
		Cyanide/Chloroac									
Annual	MW1	etonitrile	GC-MS	Annual			ug/l			no	
Annual	MW1	Propanenitrile	GC-MS	Annual			ug/l	 		no	1
		Trans-1,2	00 1110	, , , , , , , , , , , , , , , , , , , ,			о _б ,				1
Annual	MW1	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	MtBE	GC-MS	Annual		1	ug/l			no	1
			1110		1	1	8/				1
		2,2-			Ì						
Annual	MW1	dichloropropane	GC-MS	Annual	<1	<1	ug/l		1	no	
		cis-12			i -		· Gr		-		1
Annual	MW1	Dichloroethene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	2-Butanone	GC-MS	Annual	i -		ug/I		10	no	1
Annual	MW1	Methyl Acrylate	GC-MS	Annual	İ	İ	ug/l	1	10	no	1
		Bromochlorometh									1
Annual	MW1	ane	GC-MS	Annual	<1	<1	ug/l			no	
					İ						1
Annual	MW1	Methacrylonitrile	GC-MS	Annual	Ì		ug/l			no	
Annual	MW1	1-Chlorobutane	GC-MS	Annual			ug/l			no	1
		Carbon			İ	İ		1			1
Annual	MW1	Tetrachloride	GC-MS	Annual	<1	<1	ug/l			no	
											1
Annual	MW1	Dibromomethane	GC-MS	Annual	<1	<1	ug/I			no	

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		Methyl									
Annual	MW1	Methacrylate 13	GC-MS	Annual			ug/l			no	
		Dichloropropene,c									
Annual	MW1	is MIBK/4 Methyl 2	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	Pentanone	GC-MS	Annual			ug/l			no	
		13					.0			-	
Annual	MW1	Dichloropropene,t rans	GC-MS	Annual	<1	<1	ug/l			no	
Ailliuai	101001	Ethyl	GC-IVI3	Alliluai	<1	Α1	ug/i			110	
Annual	MW1	Methacrylate	GC-MS	Annual			ug/l			no	
Annual	MW1	Bromobenzene	GC-MS	Annual	<1	<1	ug/l			no	
		Trans 14 Dichloro									
Annual	MW1	2 Butene, tran	GC-MS	Annual			ug/l			no	
		Р									
Annual	MW1	Isopropyltoluene	GC-MS	Annual	<1	<1	ug/l			no	
Annual	MW1	N Butyl Benzene	GC-MS	Annual			ug/l			no	
		1,2-dibromo-3-									
Annual	MW1	chloropropane	GC-MS	Annual			ug/l		1	no	
		1,2,3-		1							
Annual	MW1	trichlorobenzene	GC-MS	Annual			ug/l			no	
Annual Annual	MW1 MW1	Mecoprop Bentazone	GC-MS GC-MS	Annual Annual	<0.1	<0.1	ug/l			no no	
Annual	MW1	Simazine	GC-MS	Annual	<0.01	<0.01	ug/l			no	
Quarterly	MW2	pН	quarterly	Quarterly	7.6	7.5	UNITS			no	
Quarterly	mw2	Temp		Quarterly					25	no	
Quarterly	mw2	Elec.Conductivity		Quarterly	44.5	37.08	uS/cm		1000	no	
Quarterly	mw2	Chlorides		Quarterly	19786	15085	mg/l		250	no	
Quarterly	mw2	Ammoniacai Nitorgen		Quarterly	6.95	5.8	mg/l		no limit set	no	
							mg/i				
Quarterly	mw2	Iron		Quarterly	1.26	0.5			1.2	no	
Quarterly	mw2	TON		Quarterly	5.88	5.88	mg/l		No abnormal change	no	
	mw2	TOC			18.3	6.84	mg/l		no limit set	no	
Quarterly	MW3	pН	quarterly	Quarterly	7.2	1	UNITS		9.5	no	
Quarterly	mw3	Temp		Quarterly		2.23			25	no	
Quarterly	mw3	Elec.Conductivity		Quarterly	2.53	2.23	uS/cm		1000	no	
Quarterly	mw3	Chlorides		Quarterly	578	465	mg/l		250	no	
		Ammoniacal									
Quarterly	mw3	Nitorgen		Quarterly	6.81	3.88	mg/l		no limit set	no	
Quarterly	mw3	Iron		Quarterly	62.8	49			1.2	no	
Quarterly	mw3	TON		Quarterly	< 0.2	>0.2	mg/l		No abnormal change	no	
Quarterly	mw3	TOC		Quarterly	41.6	17.98	mg/l		no limit set	no	
Quarterly	MW5	pН	quarterly	Quarterly		dry	UNITS		9.5	no	
Quarterly	mw5	Temp		Quarterly	dry	dry			25	no	
Quarterly	mw5	Elec.Conductivity		Quarterly	dry	dry	uS/cm		1000	no	
Quarterly	mw5	Chlorides	İ	Quarterly					250		
		Ammoniacai			dry	dry	mg/l			no	
Quarterly	mw5	Nitorgen		Quarterly	dry	dry	mg/l		no limit set	no	
Quarterly	mw5	Iron		Quarterly	dry	dry			1.2	no	
Quarterly	mw5	TON		Quarterly	dry	dry	mg/l		No abnormal change	no	
Quarterly	mw5	TOC		Quarterly							
Quarterry	UMM	100		Quarterry	dry	dry	mg/l		no limit set	no	

er/Soil monitoring template	Lic No:	W0068-03	Year	2016			
**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water C	Quality standards should b	e used in addition to the GTV e.g. if the site is close to	Surface water	Groundwater	Drinking water (private	Drinking water (public supply)	
surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a dri			EQS	regulations GTV's	supply) standards	<u>standards</u>	Interim Guideline Values (IGV)

ible 3: Soil results

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

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

Environmental Liabilities template Lic No: W0068-03 Year 2016

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	

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0068-03	Year
	Highlighted cells contain dropdown menu click to view		Additional Inforr	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 n, types of waste accepted and procedures,	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes			
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance				
3	with the licence requirements	Yes			
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes			

Environmental Management Program	nme (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 3	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 3%	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	80	additional intruder beams.	Site Staff & Management	lighting.
	To control environmental		Reduction of litter &		Increased compliance with
Additional improvements	nuisances at the facilty	95	improved site practices	Site Staff & Management	licence conditions
	Provision of pumping		Additional sump constructed		
	facilities to capture all run-		on Cell 9 to capture leachate		Increased compliance with
Leachate collection	off generated at site.	90	run-off.	Site Staff & Management	licence conditions
	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	10	requirements.	Senior Engineering Management	Waste body profiling design

Environmental Management Progra	Lic No:	W0068-03	Year	2016			
	Improved gas intake to		Improvement of site practice				
	flare unit and more		to ensure increased gas		Increased compliance with		
Gas extraction system	efficient burning of gas	95	capture	Site Staff	licence conditions		

Noise monitoring summary report	Lic No:	W0068-03	Year 2	016
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 th survey?	e last noise	No		

Table N1: Noi	se monitoring s	ummary									
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
26/1/2017	30 min	N1		53.6	50	55.7	70.6	No	SELECT	Traffic from N25.	Yes
	30 min	N1		53.9	51.1	55.7	67.5	No		Bird calls	Yes
	30 min	N1		53.6	51.1	55.5	68.6	No		JCB working on site	Yes
	30 min	N2		51.2	47.7	52.8	79.8	No			Yes
	30 min	N2		51.1	48	53.1	66.7	No		Windy during surveying	Yes
	30 min	N2		51.9	48.4	54.1	67.7	No			Yes
	30 min	N3		48.6	44.2	49.5	80	No		Noise from construction site to the south side of the town	Yes
	30 min	N3		47.3	43.6		78.8	No		country noise of birds and trees shaking	Yes
	30 min	N3		46.6	43.2	48.4	65.5	No			Yes
	30 min	N4		52.6	48.4	55.4	68.8	No		Traffic N25	Yes
	30 min	N4		53.7	46.9	56.9	77.6	No		Traffic leaving and entering site	Yes
	30 min	N4		52.8	45.5	55.1	77.1	No			Yes

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

Resource Usage/Energy efficiency summary Lic No: W0068-03 Year 2016

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

le 3 below 2015

EAI - Large
ustry Energy
twork (LIEN) No

SELECT

Additional information

Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information Network (LIEN)

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

Table R1 Energy usag	e on site			
Energy Use	Previous year		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	84.08	•	,	
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (N	/WHrs)			
Electricity Consumption (MWHrs)	84.08	82.65	-1.50%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0.2	0.2	0%	
Light Fuel Oil (m3)	17	18	5%	
Natural gas (m3)	0	0	0	
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usage on site			·		Water Emissions	Water Consumption	
	Water extracted			consumption i, is	Volume Discharged	Volume used i.e not discharged to environment e.g. released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	178	180	1%	N/A	180	N/A	
Recycled water							
Total	178	180	1%		180		

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

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

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

Resource Usage/Energy efficiency summary 2016 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 failenergy 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 facilitie	ities/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				

C	Complaints and Incidents summary template	I	Lic No:	W0068-03	Year	2016	
	Complaints						
		ation					
н	lave you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	No					

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

	Incidents			
				Additional information
Have any incidents occurred on site in the current rep	No			
•		7		
*For information on how to report and what				
constitutes an incident	What is an incident			

incidents previous year % reduction/ increase

Table 2 Incidents sur	mmary	1												
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	time of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of														
incidents current														
year														
Total number of														

WASTE SU	MMARY	Lic No:	W0068-03	Year	2016	
SECTION A	-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL	IPPC AND WASTE FACILITIES	PRTR facility logon	drondown I	list click to see ontions	

	R	ELEASES TO AIR			Please enter all quantities in this se	ection in KGs		
	POLLUTANT		METHOD				QUANTITY	
			Me	ethod Used				
No. Annex II	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				
1	Methane (CH4)	С	OTH	gas emissions monitoring	0.	0 577742.0	0.0	577742
'	Wediane (OH4)	O	0	Measured through	0.	0 377742.0	0.0	311142
				analysis of flare flue				
				gas emissions				
2	Carbon monoxide (CO)	M	ISO 12039:2001	monitoring	0.	0 15.47	0.0	15.4
				Measured through				
				analysis of flare flue gas emissions				
13	Carbon dioxide (CO2)	С	ISO 12039:2001	monitoring	0.	0 2147081.0	0.0	2147081
ŭ .	Surpoir dioxido (SS2)	ŭ		Measured through	0.	211100110	0.0	2111001
				analysis of flare flue				
				gas emissions				
7	Non-methane volatile organic compounds	M	EN 13649:2001	monitoring	0.	0 14.29	0.0) 14.2
				Measured through analysis of flare flue				
				gas emissions				
8	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005	monitoring	0.	0 428.89	0.0	428.8
	•			Measured through				
				analysis of flare flue				
			EN 44704-0005	gas emissions				
11	Sulphur oxides (SOx/SO2)	M	EN 14791:2005	monitoring	0.	0 216.68	0.0	216.6

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

SECTION B: REMAINING PRTR POLLUTANTS

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

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

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

OLUTION O . ILLINAIN	to i occorniti cimodiono (na require	a in your Licence,							
	R	ELEASES TO AIR			Please enter all quantities in this section in KGs				
	POLLUTANT		METHOD		QUANTITY				
		Method Used							П
						T (Total)	A (Accidental)		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	KG/Year	KG/Year	F (Fugitive) KG/Year	
					(١.0	0.0	0.0	10

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

Additional Data Requested from Landfill operators For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to Landfill: Please enter Youghal Landfill summary data on the quantities of methane flared and / or utilised Designation or Description T (Total) kg/Year M/C/E Facility Total Capacity m3 per hour Total estimated methane generation (as per site model) 1063447 Gas Sim model Measured through analysis of flare flue Methane flared 485705 1380.0 (Total Flaring Capacity) Methane utilised in engine/s 0.0 (Total Utilising Capacity) Gas Sim model and measured through analysis of flare flue gas emissions Net methane emission (as reported in Section 577742.0 A above

 WASTE SUMMARY
 Lic No:
 W0068-03
 Year
 2016

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0068 | Facility Name: Youghal Landfill | Filename: AER summary Youghal 2016.xlsm | Return Year: 2016 | 29/03/2017 11:56 Please enter all quantities on this sheet in Tonnes 25 Haz Waste : Address of Next Destination Facility Name and License Permit No. and Address of Final Actual Address of Final Destination i.e. Final Recovery / Disposal lo of Next Destination Facility Quantity (Tonnes per Non Haz Waste: Name and Licence/Permit No of Recover/Dispos Haz Waste: Addres (HAZARDOUS Site (HAZARDOUS Method Used Description of Waste Waste Treatment Operation Transfer Destination European Waste Code Hazardous Location of Treatment Clonminam Enva Ltd.W0184-Industrial 01,Clonminam Clonminam mineral-based non-Estate,Portlaoise Industrial Industrial chlorinated engine, ,Co Estate, Portlaoise, Estate, Portlaoise, C М Enva Ltd,W0184-01 Within the Country 13 02 05 Yes 3.82 gear and lubricating oils R9 Weighed Offsite in Ireland Laois,.,Ireland Co Laois,.,Ireland o Laois,.,Ireland Sarsfield Court Industrial paper and cardboard Estate, Glanmire, Within the Country 15 01 01 No 65.82 packaging R3 M Weighed Offsite in Ireland Greenstar Ltd,W0136-01 Cork,.,Ireland Corbally Green Dragon North, Glanmire, Recycling,CK/09/0629/01 Within the Country 22.31 plastic packaging No Weighed Offsite in Ireland Cork,.,Ireland Corbally Green Dragon North, Glanmire, 15 01 04 No 7.26 metallic packaging М Recycling,CK/09/0629/01 Cork,.,Ireland Within the Country Weighed Offsite in Ireland Luddenmore,Gra nge,Kilmalock,Co Within the Country 15 01 07 No 41.51 glass packaging R5 м Weighed Offsite in Ireland Mr. Binman,W0061-01 Limerick,Ireland KMK Metals Cappinacur Ltd,W0133-03,Cappincur Cappincur Estate,Tullamore Industrial Industrial Estate, Tullamore, Estate, Tullamore, C .Co Within the Country 16 06 01 Yes 0.38 lead batteries М Weighed Offsite in Ireland KMK Metals Ltd,W0133-03 Offlay,,,Ireland Co Offlay,,,Ireland o Offlay,,,Ireland Carrigtohill Wastewater Treatment landfill leachate other Plant, Tullagreen, than those mentioned Carrigtohill ,Co Within the Country 19 07 03 No 5827.54 in 19 07 02 М Weighed Offsite in Ireland Cork County Council,. Cork,Ireland Sarsfield Court Industrial Estate, Glanmire, Within the Country 20 01 01 No 84.46 paper and cardboard R3 M Greenstar Ltd,W0136-01 Weighed Offsite in Ireland Cork...Ireland 41-42 Cookstown Industrial Estate, Tallaght, D ublin,D 11.4 glass R5 MSM Recycling,W0079-01 Within the Country 20 01 02 Weighed Offsite in Ireland 24,Ireland Glen Abbey Business Textile Recycling Ltd, WCP-DC-Park,Tallaght,Du

M

Weighed

Offsite in Ireland

08-1225-01

blin.D24.Ireland

8.86 textiles

R5

Within the Country 20 01 11

WASTE SUMMAR	RY			Lic No:	W0068-03		Year	2010	j	
Within the Country	20 01 27	Yes	paint, inks, adhesives and resins containing 5.94 dangerous substances	R1	М	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Clonminam Enva Ltd, W0184- Industrial 01, Clonminam Estate, Portlaoise Industrial ,Co Estate, Portlaoise, Laois, "Ireland Co Laois, "Ireland	
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 119.4 20 01 23 and 20 01 35	R4	м	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappinacur Industrial Estate,Tullamore ,Co Offlay,.,Ireland	
Within the Country	20 01 38	No	wood other than that 139.41 mentioned in 20 01 37	R13	м	Weighed	Offsite in Ireland	CTO Environmental Solutions Ltd,CK/09/0068/02	Rostellan,Midlet on,Co Cork,.,Ireland Pouladuff	
Within the Country	20 01 40	No	61.38 metals	R4	М	Weighed	Offsite in Ireland	Pouladuff Dismantlers Ltd,CK(S) 478/07	Road,Togher,Cor k ,.,Ireland	
Within the Country	20 02 01	No	60.78 biodegradable waste	R3	М	Weighed	Offsite in Ireland	Greenstar Ltd, W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,,Ireland	
Nithin the Country	16 06 02	Yes	0.36 Ni-Cd batteries	R4	М	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappinacur Industrial Estate, Tullamore ,Co Offlay,,Ireland Cappinacur	
Vithin the Country	16 06 04	No	alkaline batteries 0.62 (except 16 06 03)	R4	М	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Industrial Estate,Tullamore ,Co Offlay,,,Ireland Clonminam Industrial	
Within the Country	20 01 25	No	1.22 edible oil and fat	R9	М	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Estate,Portlaoise ,Co Laois,.,Ireland	
Within the Country	20 03 03	No	145.44 street-cleaning residues	D13	М	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,,Ireland	
Nithin the Country	20 03 01	No	433.37 mixed municipal waste	D13	М	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,,Ireland	
	20 03 07	No	558.43 bulky waste	D13	М	Weighed	Offsite in Ireland	Greenstar Ltd, W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,,Ireland	
Within the Country	20 00 01									

WASTE SUMMARY	Lic No:	W0068-03	Year	2016

	SECTION B- WASTE	ACCEPTED ONTO SITE-TO BE CO	MPLETED BY ALL IPPC AN	ND WASTE FACILITIES								
1	to be captured through I		or treatment prior to recovery or	disposal within the bounda	ries of your facility ?; (was	ste generated within your boundaries is	No	Additional Information	n 			
	If yes please enter detail:	s in table 1 below							1			
2	2 Did your site have any re	jected consignments of waste in the curren	nt reporting year? If yes please gi	ve a brief explanation in the	e additional information		No					
3		waste accepted onto your site that was ger					No					
	Table 1 Details o	f waste accepted onto your s	site for recovery, dispo	osal or treatment (do not include wa	astes generated at your site	e, as these wi	Il have been re	ported in your PR	TR workbook)		
	Licenced annual tonnage limit for your site (total tonnes/annum)	European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/ - %	Reason for reduction/ increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
											 	
	SECTION C-TO BE C	COMPLETED BY ALL WASTE FACIL	ITIES (waste transfer stat	ions, Composters, M	laterial recovery fac	ilities etc) EXCEPT LANDFILL SI	TES					
2	Is all waste processing in	frastructure as required by your licence an	d approved by the Agency in plac	e? If no please list waste pr	ocessing infrastructure re	quired onsite	SELECT					
5	Is all waste storage infra	structure as required by your licence and a	pproved by the Agency in place?	If no please list waste stora	ge infrastructure required	on site	SELECT				j	
6	Does your facility have re	elevant nuisance controls in place?					SELECT				Ī	
		anagement system in place for your facility	y? If no why?				SELECT				1	
8	B Do you maintain a sludge	e register on site?					SELECT				j	
		COMPLETED BY LANDFILL SITES Cost and tonnage-landfill only	ONLY]								
	Waste types permitted	Authorised/licenced annual intake for	Actual intake for disposal in	Remaining licensed capacity at end of	Comments							

nanagemnt of Cork

128,000

27,000

5,300

0

0

Household & Commercial Industrial non-haz Construction&Demoliti

on Waste

 WASTE SUMMARY
 Lic No:
 W0068-03
 Year
 2016

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?		Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										SELECT UNIT	SELECT UNIT	SELECT UNIT
Cell 9	Dec-08	Temporary Cease Feb 2012	Yes	Public	Non Hazardous	2018	No	No	No	80000	40000	40000

WASTE SUMMARY	Lic No:	W0068-03	Year	2016	

Table 4 Environme	ental monitoring-landfill only	Landfill Manual-Monitoring Standards								
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		
								All license conditions		
								being met under		
								current monitoring		
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	regime		

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

Table 5 Capping-Landfill only

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

^{*}please note this includes daily cover area **Table 6 Leachate-Landfill only**

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

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

Yes

Volume of leachate in		Leachate (COD) mass load	Leachate (NH4) mass	Leachate (Chloride)		Specify type of leachate	
			load (kg/annum)	mass load kg/annum			Comments
							Values are in line
							with than previous
							years due but with
							an increased volume
							of leachate taken
							off-site. This
							indicates a further
							reduction in the
							parameter results of
							the leachate at
						Treatment Plant	Youghal Landfill.
						with Mixing tank,	This is attributed to
							the greater capture
						& Settlement	of dilute leachate
5827.54	287.5	1394.2	742.9	981.2	No	tanks	from Cell 9.

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

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
				Gas captured figure is Annual Methane burn- off in kg/annum. Areas of elevated VOC's are identified by the surveys and are attended to by site
485705 kg CH4/Annum	0	0	Yes	staff. Well heads and flanked areas are repaired to improve gas system coverage at the site. Ongoing on- site maintenance.

Comments on liner type

liner with