

Facility Information Summary	
AER Reporting Year	2017
Licence Register Number	W0076-01
Name of site	Longpavement Landfill
Site Location	Longpavement Landfill Site, Monabraher, Co. Limerick
NACE Code	3821
Class/Classes of Activity	Class 4, 7 of Third Schedule and Class 4, 9, 10 of Fourth Schedule
National Grid Reference (6E, 6 N)	-8.63592, 52.68034
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.	<p>This site is a closed landfill and no materials were imported onto the site in 2017. All works on the site are now complete. Any exceedances that were recorded during licenced monitoring have been outlined in the quarterly reports and annual report which have been uploaded to Eden. The site received 0 complaints and had 2 incidents in 2017.</p>

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.

<u>John O' Carroll</u> Signature Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small>	<u>20/03/2018</u> Date
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AIR-summary template

Lic No:

W0076-01

Year

2017

Answer all questions and complete all tables where relevant

Additional information

- 1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Yes

Periodic/Non-Continuous Monitoring

- 2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

No

- 3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#)

AGN2

Yes

Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
F1	Carbon Monoxide (CO)	Annually	50	All values < ELV	12.42	mg/m ³	yes	NCIR By Horiba PG-250	N/A	3.23
F1	Oxides of Nitrogen (No _x) as NO ₂	Annually	150	All values < ELV	119.85	mg/m ³	yes	Chemiluminescence	N/A	31.18
F1	Total Volatile Organic Carbon (TOC)	Annually	10	All values < ELV	3.63	mgC/m ³	yes	Flame Ionisation Detection	N/A	0.94
F1	Hydrogen Chloride (HCL)	Annually	50	All values < ELV	3.08	mg/m ³	yes	Ion Chromatography	N/A	0.8
F1	Hydrogen Fluoride (HF)	Annually	5	All values < ELV	<0.36	mg/m ³	yes	Ion Chromatography	N/A	<0.094
F1	Volumetric Flow Rate	Annually	N/A	N/A	83	m ³ /hr	N/A		N/A	N/A

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

Continuous Monitoring

- 4 Does your site carry out continuous air emissions monitoring?

Yes

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If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

No

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

Yes

7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below

No

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
F1	Methane (CH ₄)	N/A	Monthly	N/A	m3	9,897	11,918	0	N/A	N/A
F1	volumetric flow	N/A	Monthly	N/A	m3/hr	83	87	0	N/A	N/A

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

Table A3: Abatement system bypass reporting table[Bypass protocol](#)

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

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

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

Solvent use and management on site

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Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5				No				
8	Table A4: Solvent Management Plan Summary		Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6					
	Total VOC Emission limit value							
	Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance		
						SELECT		
						SELECT		
	Table A5: Solvent Mass Balance summary							
		(I) Inputs (kg)	(O) Outputs (kg)					
	Solvent	(I) Inputs (kg)	Organic solvent emission in waste gases(kg)	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-passes (kg)	Solvents destroyed onsite through physical reaction e.g. incineration(kg)
								Total

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0076-01 Year 2017

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 licensed emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

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

Yes	Additional information
Yes	

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

*trigger values may be agreed by the Agency outside of licence conditions.

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

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

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

Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

Yes	Additional information
Yes	The 2017 quarterly surface water reports and the annual surface water report have been uploaded to Eden and contain additional information on any exceedances that have been recorded.

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

Emission reference no.	Emission released to	Parameter/ Substance>Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof**	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
W51 - Quarter 1 25/01/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.79	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W51 - Quarter 1 25/01/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	759	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W51 - Quarter 1 25/01/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	42	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W51 - Quarter 1 25/01/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.7	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W51 - Quarter 1 25/01/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.03	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W51 - Quarter 1 25/01/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	24	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W51 - Quarter 1 25/01/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W51 - Quarter 1 25/01/2017	Water	CO2	discrete	Quarterly	N/A	40	N/A	<7***	mg/L	yes	Spectrophotometry (Colometry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W51 - Quarter 1 25/01/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	11	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W52 - Quarter 1 25/01/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.99	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W52 - Quarter 1 25/01/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	575	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W52 - Quarter 1 25/01/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	59	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W52 - Quarter 1 25/01/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.5	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
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W52 - Quarter 1 25/01/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.4	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W52 - Quarter 1 25/01/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	20.8	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W52 - Quarter 1 25/01/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W52 - Quarter 1 25/01/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	11	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W52 - Quarter 1 25/01/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W53 - Quarter 1 25/01/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	N/5	pH units	N/A	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	Access Restrictions
W53 - Quarter 1 25/01/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	N/5	µS/cm	N/A	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	Access Restrictions
W53 - Quarter 1 25/01/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	N/5	%	N/A	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	Access Restrictions
W53 - Quarter 1 25/01/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	N/5	degrees C	N/A	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	Access Restrictions
W53 - Quarter 1 25/01/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	N/5	mg/L	N/A	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Access Restrictions
W53 - Quarter 1 25/01/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	N/5	mg/L	N/A	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Access Restrictions
W53 - Quarter 1 25/01/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	N/5	mg/L	N/A	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	Access Restrictions
W53 - Quarter 1 25/01/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	N/5	mg/L	N/A	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	Access Restrictions
W53 - Quarter 1 25/01/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	N/5	mg/L	N/A	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	Access Restrictions
W54 - Quarter 1 25/01/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	8.03	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W54 - Quarter 1 25/01/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	577	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W54 - Quarter 1 25/01/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	37	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 1 25/01/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.8	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W54 - Quarter 1 25/01/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	13.85	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 1 25/01/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	52.3	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W54 - Quarter 1 25/01/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	4	mg/L	no	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	BOD is above the limit of 2.6 mg/l O ₂ set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 1 25/01/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	22	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W54 - Quarter 1 25/01/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W55 - Quarter 1 25/01/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.60	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A

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W55 - Quarter 1 25/01/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	1067	µS/cm	no	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	EC is above the limit of 1000 µS/cm set in Parameters of Water Quality - Interpretation and Standards, EPA, 2001
W55 - Quarter 1 25/01/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	33	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 1 25/01/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.8	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W55 - Quarter 1 25/01/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	19.75	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 1 25/01/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	62.5	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W55 - Quarter 1 25/01/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	6	mg/L		Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	BOD is above the limit of 2.6 mg/l O ₂ set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 1 25/01/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	29	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
W55 - Quarter 1 25/01/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	15	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W56 - Quarter 1 25/01/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	8.44	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W56 - Quarter 1 25/01/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	433	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W56 - Quarter 1 25/01/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	64	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W56 - Quarter 1 25/01/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W56 - Quarter 1 25/01/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	<0.03***	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W56 - Quarter 1 25/01/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	15.3	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W56 - Quarter 1 25/01/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	1	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
W56 - Quarter 1 25/01/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	22	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
W56 - Quarter 1 25/01/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W57 - Quarter 1 25/01/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	N/S	pH units	N/A	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	Access Restrictions
W57 - Quarter 1 25/01/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	N/S	µS/cm	N/A	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	Access Restrictions
W57 - Quarter 1 25/01/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	N/S	%	N/A	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	Access Restrictions
W57 - Quarter 1 25/01/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	N/S	degrees C	N/A	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	Access Restrictions

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
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WS7 - Quarter 1 25/01/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	N/S	mg/L	N/A	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Access Restrictions
WS7 - Quarter 1 25/01/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	N/S	mg/L	N/A	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Access Restrictions
WS7 - Quarter 1 25/01/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	N/S	mg/L	N/A	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	Access Restrictions
WS7 - Quarter 1 25/01/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	N/S	mg/L	N/A	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	Access Restrictions
WS7 - Quarter 1 25/01/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	N/S	mg/L	N/A	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	Access Restrictions
WS1 - Quarter 2 12/04/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.72	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
WS1 - Quarter 2 12/04/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	851	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
WS1 - Quarter 2 12/04/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	37	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS1 - Quarter 2 12/04/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.1	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
WS1 - Quarter 2 12/04/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.1	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
WS1 - Quarter 2 12/04/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	20.7	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
WS1 - Quarter 2 12/04/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	4	mg/L	no	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	BOD is above the limit of 2.6 mg/l O ₂ set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS1 - Quarter 2 12/04/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	30	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
WS1 - Quarter 2 12/04/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
WS2 - Quarter 2 12/04/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.62	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
WS2 - Quarter 2 12/04/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	496	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
WS2 - Quarter 2 12/04/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	60	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS2 - Quarter 2 12/04/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.6	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
WS2 - Quarter 2 12/04/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.08	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
WS2 - Quarter 2 12/04/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	20.7	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
WS2 - Quarter 2 12/04/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	3	mg/L	no	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	BOD is above the limit of 2.6 mg/l O ₂ set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS2 - Quarter 2 12/04/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	30	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
WS2 - Quarter 2 12/04/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
WS3 - Quarter 2 12/04/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.45	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
WS3 - Quarter 2 12/04/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	663	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
		Lic No:		W0076-01		Year		2017							
W53 - Quarter 2 12/04/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	61	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W53 - Quarter 2 12/04/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W53 - Quarter 2 12/04/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	16.98	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W53 - Quarter 2 12/04/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	49.4	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W53 - Quarter 2 12/04/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	3	mg/L	no	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	BOD is above the limit of 2.6 mg/l O ₂ set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W53 - Quarter 2 12/04/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	30	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W53 - Quarter 2 12/04/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	13	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W54 - Quarter 2 12/04/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	8.16	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W54 - Quarter 2 12/04/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	567	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W54 - Quarter 2 12/04/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	37	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 2 12/04/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W54 - Quarter 2 12/04/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.84	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 2 12/04/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	16.3	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W54 - Quarter 2 12/04/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W54 - Quarter 2 12/04/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	29	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W54 - Quarter 2 12/04/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W55 - Quarter 2 12/04/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.89	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A

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W55 - Quarter 2 12/04/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	1167	µS/cm	no	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	EC is above the limit of 1000 µS/cm set in Parameters of Water Quality - Interpretation and Standards, EPA, 2001
W55 - Quarter 2 12/04/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	32	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 2 12/04/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.5	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W55 - Quarter 2 12/04/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.23	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 2 12/04/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	16.2	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W55 - Quarter 2 12/04/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
W55 - Quarter 2 12/04/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	23	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
W55 - Quarter 2 12/04/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W55 - Quarter 2 12/04/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	8.44	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W56 - Quarter 2 12/04/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	433	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W56 - Quarter 2 12/04/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	64	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W56 - Quarter 2 12/04/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W56 - Quarter 2 12/04/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	<0.03***	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W56 - Quarter 2 12/04/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	15.3	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W56 - Quarter 2 12/04/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	1	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
W56 - Quarter 2 12/04/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	22	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
W56 - Quarter 2 12/04/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	N/S	pH units	N/A	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	N/S	µS/cm	N/A	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	N/S	%	N/A	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	N/S	degrees C	N/A	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	N/S	mg/L	N/A	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	N/S	mg/L	N/A	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	N/S	mg/L	N/A	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	N/S	mg/L	N/A	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
W57 - Quarter 2 12/04/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	N/S	mg/L	N/A	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W51 - Quarter 3 16/08/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.99	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
		Lic No:		W0076-01		Year: 2017									
W51 - Quarter 3 16/08/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	479	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W51 - Quarter 3 16/08/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	98	%	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	N/A
W51 - Quarter 3 16/08/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.8	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W51 - Quarter 3 16/08/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.11	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W51 - Quarter 3 16/08/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	21.6	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W51 - Quarter 3 16/08/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	1	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W51 - Quarter 3 16/08/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	18	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W51 - Quarter 3 16/08/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	8.36	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	449	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	96	%	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.9	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.12	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	21.5	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	11	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W52 - Quarter 3 16/08/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W53 - Quarter 3 16/08/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.32	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W53 - Quarter 3 16/08/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	1395	µS/cm	no	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	EC is above the limit of 1000 µS/cm set in Parameters of Water Quality - Interpretation and Standards, EPA, 2001
W53 - Quarter 3 16/08/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	67	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W53 - Quarter 3 16/08/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W53 - Quarter 3 16/08/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	47.52	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W53 - Quarter 3 16/08/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	101.3	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W53 - Quarter 3 16/08/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W53 - Quarter 3 16/08/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	38	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W53 - Quarter 3 16/08/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	11	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W54 - Quarter 3 16/08/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.42	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W54 - Quarter 3 16/08/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	267	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
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W54 - Quarter 3 16/08/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	61	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 3 16/08/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.5	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W54 - Quarter 3 16/08/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	7.76	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 3 16/08/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	38.4	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W54 - Quarter 3 16/08/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
W54 - Quarter 3 16/08/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	42	mg/L	no	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	COD is above the limit of 40 mg/l set in Parameters of Water Quality - Interpretation and Standards, EPA, 2001
W54 - Quarter 3 16/08/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	10	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W55 - Quarter 3 16/08/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.26	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W55 - Quarter 3 16/08/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	773	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W55 - Quarter 3 16/08/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	75	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 3 16/08/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.7	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W55 - Quarter 3 16/08/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	12.13	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 3 16/08/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	44.4	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W55 - Quarter 3 16/08/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	3	mg/L	no	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	BOD is above the limit of 2.6 mg/l O ₂ set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 3 16/08/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	21	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
W55 - Quarter 3 16/08/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	12	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W56 - Quarter 3 16/08/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	8.13	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W56 - Quarter 3 16/08/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	397	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A

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W56 - Quarter 3 16/08/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	65	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W56 - Quarter 3 16/09/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	13.1	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W56 - Quarter 3 16/08/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.12	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W56 - Quarter 3 16/08/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	16.5	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W56 - Quarter 3 16/08/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	1	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W56 - Quarter 3 16/08/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	16	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W56 - Quarter 3 16/09/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W57 - Quarter 3 16/08/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.66	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W57 - Quarter 3 16/08/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	736	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W57 - Quarter 3 16/08/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	68	%	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	N/A
W57 - Quarter 3 16/09/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	12.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W57 - Quarter 3 16/08/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	6.39	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W57 - Quarter 3 16/09/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	32	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W57 - Quarter 3 16/08/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W57 - Quarter 3 16/09/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	24	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W57 - Quarter 3 16/08/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	10	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W51 - Quarter 4 11/10/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.41	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W51 - Quarter 4 11/10/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	424	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A

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WS1 - Quarter 4 11/10/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	71	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS1 - Quarter 4 11/10/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
WS1 - Quarter 4 11/10/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.36	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS1 - Quarter 4 11/10/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	22.3	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
WS1 - Quarter 4 11/10/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
WS1 - Quarter 4 11/10/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	25	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
WS1 - Quarter 4 11/10/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
WS2 - Quarter 4 11/10/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.46	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
WS2 - Quarter 4 11/10/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	439	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
WS2 - Quarter 4 11/10/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	61	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS2 - Quarter 4 11/10/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.5	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
WS2 - Quarter 4 11/10/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	1.04	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS2 - Quarter 4 11/10/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	22.8	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
WS2 - Quarter 4 11/10/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
WS2 - Quarter 4 11/10/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	14	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
WS2 - Quarter 4 11/10/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
WS3 - Quarter 4 11/10/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.43	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
WS3 - Quarter 4 11/10/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	524	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
WS3 - Quarter 4 11/10/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	54	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
WS3 - Quarter 4 11/10/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
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W33 - Quarter 4 11/10/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	1.81	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W33 - Quarter 4 11/10/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	19.4	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W33 - Quarter 4 11/10/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
W33 - Quarter 4 11/10/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	13	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
W33 - Quarter 4 11/10/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W33 - Quarter 4 11/10/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.78	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W34 - Quarter 4 11/10/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	446	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W54 - Quarter 4 11/10/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	54	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 4 11/10/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.6	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W54 - Quarter 4 11/10/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	1.34	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W54 - Quarter 4 11/10/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	21.1	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A
W54 - Quarter 4 11/10/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PM0	N/A	N/A
W54 - Quarter 4 11/10/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	20	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PM0	N/A	N/A
W54 - Quarter 4 11/10/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PM0	N/A	N/A
W55 - Quarter 4 11/10/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.94	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W55 - Quarter 4 11/10/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	420	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W55 - Quarter 4 11/10/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	62	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 4 11/10/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.4	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W55 - Quarter 4 11/10/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.56	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W55 - Quarter 4 11/10/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	18.3	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PM0	N/A	N/A

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W55 - Quarter 4 11/10/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W55 - Quarter 4 11/10/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	17	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W55 - Quarter 4 11/10/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W55 - Quarter 4 11/10/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	8.18	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W56 - Quarter 4 11/10/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	393	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W56 - Quarter 4 11/10/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	71	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W56 - Quarter 4 11/10/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.3	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W56 - Quarter 4 11/10/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.06	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W56 - Quarter 4 11/10/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	16	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W56 - Quarter 4 11/10/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	<1***	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W56 - Quarter 4 11/10/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	14	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W56 - Quarter 4 11/10/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A
W57 - Quarter 4 11/10/2017	Water	pH	discrete	Quarterly	N/A	6.0 < pH < 9.0	No pH value shall deviate from the specified range.	7.51	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - H	N/A	N/A
W57 - Quarter 4 11/10/2017	Water	Electrical Conductivity	discrete	Quarterly	N/A	1000	All values < ELV	550	µS/cm	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 2510 - B	N/A	N/A
W57 - Quarter 4 11/10/2017	Water	Dissolved Oxygen	discrete	Quarterly	N/A	>80% - <120%	All values < ELV	62	%	no	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	APHA - 4500 - O - G	N/A	DO% is less than the 80% lower limit set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W57 - Quarter 4 11/10/2017	Water	Temperature	discrete	Quarterly	N/A	1.5°C rise in ambient temperature	All values < ELV	9.5	degrees C	yes	Thermometer	APHA / AWWA "Standard Methods"	APHA - 2550 - B	N/A	N/A
W57 - Quarter 4 11/10/2017	Water	Ammonical Nitrogen	discrete	Quarterly	N/A	0.14	All values < ELV	0.74	mg/L	no	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	Ammonia is above the limit of 0.14 mg/l set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
W57 - Quarter 4 11/10/2017	Water	Chloride	discrete	Quarterly	N/A	250	N/A	19.5	mg/L	yes	Photometric analysis	ISO 17025 (UKAS/SANAS)	TM38/PMO	N/A	N/A
W57 - Quarter 4 11/10/2017	Water	BOD	discrete	Quarterly	N/A	2.6	All values < ELV	1	mg/L	yes	Dissolved Oxygen Meter (Electrode)	ISO 17025 (UKAS/SANAS)	TM58/PMO	N/A	N/A
W57 - Quarter 4 11/10/2017	Water	COD	discrete	Quarterly	N/A	40	N/A	24	mg/L	yes	Spectrophotometry (Colorimetry)	ISO 17025 (UKAS/SANAS)	TM57/PMO	N/A	N/A
W57 - Quarter 4 11/10/2017	Water	Total Suspended Solids	discrete	Quarterly	N/A	50	N/A	<10***	mg/L	yes	Gravimetric analysis	ISO 17025 (UKAS/SANAS)	TM37/PMO	N/A	N/A

*** Result less than the laboratory limit of detection

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

Continuous monitoring

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

No	
----	--

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

N/A	
-----	--

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

N/A	
-----	--

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

N/A	
-----	--

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (t/a)	% change +/- from previous reporting year	Monitoring Equipment (downtime (hours))	Number of ELV exceedences in reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

- 1
- 2 Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
- 3
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

No	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

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

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

- 15
- 16 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

Commentary	
SELECT	
SELECT	
SELECT	

Pipeline/underground structure testing

- Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**
- 1
 - 2 Please provide integrity testing frequency period
- *please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

SELECT	
SELECT	

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

Groundwater/Soil monitoring template	Lic No: W0076-01	Year: 2017
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		Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no	
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template.	yes	
5	Is the contamination related to operations at the facility (either current and/or historic)	yes	historic
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes	1. Leachate pumps on site were repaired. 2. Ammonia concentration in GW is now being monitored monthly
7	Please specify the proposed time frame for the remediation strategy	yes	6 months
8	Is there a licence condition to carry out/update ELRA for the site?	no	
9	Has any type of risk assessment been carried out for the site?	no	
10	Has a Conceptual Site Model been developed for the site?	no	
11	Have potential receptors been identified on and off site?	yes	
12	Is there evidence that contamination is migrating offsite?	no	

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER

The 2017 quarterly groundwater reports and the annual groundwater report have been uploaded to Eden and contain additional information on any exceedances that have been recorded.

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	IGV	Upward trend in pollutant concentration over last 5 years of monitoring data
03/01, 12/04, 16/08, 11/10	GW2d	pH	pH meter (Electrode)	Quarterly	7.30	6.90	pH units	6.5 < pH < 9.5		
03/01, 12/04, 16/08, 11/10	GW2d	EC	Conductivity meter (Electrode)	Quarterly	2520	1934	µS/cm	1875		
03/01, 12/04, 16/08, 11/10	GW2d	DO	Dissolved oxygen meter (Electrode)	Quarterly	32	28	%		No abnormal change	
03/01, 12/04, 16/08, 11/10	GW2d	Temperature	Thermometer	Quarterly	12.3	11.15	Degrees C		25°C	
03/01, 12/04, 16/08, 11/10	GW2d	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	39.57	26.88	mg/l	0.175		
03/01, 12/04, 16/08, 11/10	GW2d	Chloride	Photometric Analysis	Quarterly	358.8	205.23	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW2d	TOC	TOC Analyser	Quarterly	38	22.75	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW2s	pH	pH meter (Electrode)	Quarterly	7.59	7.59	pH units	6.5 – 9.5		

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03/01, 12/04, 16/08, 11/10	GW2s	EC	Conductivity meter (Electrode)	Quarterly	1763	1763	µS/cm	1875		
03/01, 12/04, 16/08, 11/10	GW2s	DO	Dissolved oxygen meter (Electrode)	Quarterly	43	43	%		No abnormal change	
03/01, 12/04, 16/08, 11/10	GW2s	Temperature	Thermometer	Quarterly	9.8	9.8	Degrees C	N/A	25°C	
03/01, 12/04, 16/08, 11/10	GW2s	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	0.41	0.41	mg/l	0.175		
03/01, 12/04, 16/08, 11/10	GW2s	Chloride	Photometric Analysis	Quarterly	151.3	151.3	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW2s	TOC	TOC Analyser	Quarterly	10	10	mg/l	187.5		
16/08/2017	GW2d	Cyanide	Flow Injection Analyser	Annually		<0.01***	mg/l	0.0375		
16/08/2017	GW2d	Flouride	Ion Selective Electrode	Annually		<0.3***	mg/l	1		
16/08/2017	GW2d	Mercury	ICP-OES	Annually		<1***	ug/l	0.75		
16/08/2017	GW2d	Sulphate	Photometric Analysis	Annually		<0.5***	mg/l	187.5		
16/08/2017	GW2d	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		1188	mg/l	No Change		
16/08/2017	GW2d	Ortho-Phosphate	Photometric Analysis	Annually		<0.06***	mg/l	0.035		
16/08/2017	GW2d	TON	Photometric Analysis	Annually		<0.2***	mg/l		No abnormal change	
16/08/2017	GW2d	Residue on Evaporation	Gravimetric	Annually		1626	mg/l		1000	
16/08/2017	GW2d	Boron (B)	ICP-OES	Annually		98	ug/l	750		
16/08/2017	GW2d	Total Chromium (Cr)	ICP-OES	Annually		1.9	ug/l	37.5		
16/08/2017	GW2d	Cadmium (Cd)	ICP-OES	Annually		<0.5***	ug/l	3.75		
16/08/2017	GW2d	Calcium (Ca)	ICP-OES	Annually		444.5	mg/l	N/A	200	
16/08/2017	GW2d	Copper (Cu)	ICP-OES	Annually		<7***	ug/l	1.5		
16/08/2017	GW2d	Iron (Fe)	ICP-OES	Annually		39270	mg/l	1		
16/08/2017	GW2d	Lead (Pb)	ICP-OES	Annually		<5***	ug/l	18.75		
16/08/2017	GW2d	Magnesium (Mg)	ICP-OES	Annually		31	mg/l	50		
16/08/2017	GW2d	Manganese (Mn)	ICP-OES	Annually		2313	ug/l	50		
16/08/2017	GW2d	Nickel (Ni)	ICP-OES	Annually		2	ug/l	20		
16/08/2017	GW2d	Potassium (K)	ICP-OES	Annually		19.2	mg/l	5		
16/08/2017	GW2d	Sodium (Na)	ICP-OES	Annually		66.9	mg/l	150		
16/08/2017	GW2d	Zinc (Zn)	ICP-OES	Annually		11	ug/l	100		
16/08/2017	GW2d	2-Chlorophenol	GC-MS	Annually		<1***	ug/l		200	
16/08/2017	GW2d	2-Methylphenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW2d	2-Nitrophenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW2d	2,4-Dichlorophenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW2d	2,4-Dimethylphenol	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW2d	2,4,5-Trichlorophenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW2d	2,4,6-Trichlorophenol	GC-MS	Annually		<1***	ug/l		200	
16/08/2017	GW2d	4-Chloro-3-methylphenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW2d	4-Methylphenol	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW2d	4-Nitrophenol	GC-MS	Annually		<10***	ug/l	-		
16/08/2017	GW2d	Pentachlorophenol	GC-MS	Annually		<1***	ug/l		2	
16/08/2017	GW2d	Phenol	GC-MS	Annually		<1***	ug/l		0.5	
16/08/2017	GW2d	2-Chloronaphthalene	GC-MS	Annually		<1***	ug/l	-		

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16/08/2017	GW2d	2-Methylnaphthalene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	Naphthalene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	Acenaphthylene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Acenaphthene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	Fluorene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Phenanthrene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Anthracene	GC-MS	Annually	<0.5***	ug/l	-	10000
16/08/2017	GW2d	Fluoranthene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Pyrene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Benzo(a)anthracene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Chrysene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Benzo(bk)fluoranthene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	Benzo(a)pyrene	GC-MS	Annually	<1***	ug/l	-	0.01
16/08/2017	GW2d	Indeno(123cd)pyrene	GC-MS	Annually	<1***	ug/l	-	0.05
16/08/2017	GW2d	Dibenzo(ah)anthracene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Benzo(ghi)perylene	GC-MS	Annually	<0.5***	ug/l	-	0.05
16/08/2017	GW2d	Bis(2-ethylhexyl) phthalate	GC-MS	Annually	<5***	ug/l	-	5
16/08/2017	GW2d	Butylbenzyl phthalate	GC-MS	Annually	<1***	ug/l	-	5
16/08/2017	GW2d	Di-n-butyl phthalate	GC-MS	Annually	<1.5***	ug/l	-	2
16/08/2017	GW2d	Di-n-Octyl phthalate	GC-MS	Annually	<1***	ug/l	-	5
16/08/2017	GW2d	Diethyl phthalate	GC-MS	Annually	<1***	ug/l	-	5
16/08/2017	GW2d	Dimethyl phthalate	GC-MS	Annually	<1***	ug/l	-	5
16/08/2017	GW2d	1,2-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-	10
16/08/2017	GW2d	1,2,4-Trichlorobenzene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	1,3-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	1,4-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	2-Nitroaniline	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	2,4-Dinitrotoluene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	2,6-Dinitrotoluene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	3-Nitroaniline	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	4-Bromophenylphenylether	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	4-Chloroaniline	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	4-Chlorophenylphenylether	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	4-Nitroaniline	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Azobenzene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Bis(2-chloroethoxy)methane	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Bis(2-chloroethyl)ether	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	Carbazole	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Dibenzofuran	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Hexachlorobenzene	GC-MS	Annually	<1***	ug/l	-	0.03
16/08/2017	GW2d	Hexachlorobutadiene	GC-MS	Annually	<1***	ug/l	-	0.1
16/08/2017	GW2d	Hexachlorocyclopentadiene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	Hexachloroethane	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW2d	Isophorone	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	N-nitrosodi-n-propylamine	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW2d	Nitrobenzene	GC-MS	Annually	<1***	ug/l	-	10
16/08/2017	GW2d	Dichlorodifluoromethane	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW2d	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually	0.1	ug/l	-	30
16/08/2017	GW2d	Chloromethane	Headspace GC-MS	Annually	<3***	ug/l	-	

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16/08/2017	GW2d	Vinyl Chloride	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW2d	Bromomethane	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW2d	Chloroethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	Trichlorofluoromethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	Dichloromethane (DCM)	Headspace GC-MS	Annually		<3***	ug/l		10	
16/08/2017	GW2d	trans-1-2-Dichloroethene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,1-Dichloroethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	cis-1-2-Dichloroethene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	2,2-Dichloropropane	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW2d	Bromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Chloroform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	1,1,1-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l		500	
16/08/2017	GW2d	1,1-Dichloropropene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	Carbon tetrachloride	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	1,2-Dichloroethane	Headspace GC-MS	Annually		<2***	ug/l		3	
16/08/2017	GW2d	Benzene	Headspace GC-MS	Annually		<0.5***	ug/l		1	
16/08/2017	GW2d	Trichloroethene (TCE)	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,2-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Dibromomethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	Bromodichloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Toluene	Headspace GC-MS	Annually		8	ug/l		10	
16/08/2017	GW2d	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	1,1,2-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		<3***	ug/l		40	
16/08/2017	GW2d	1,3-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Dibromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017			
16/08/2017	GW2d	1,2-Dibromoethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Chlorobenzene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW2d	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Ethylbenzene	Headspace GC-MS	Annually		<1***	ug/l		10	
16/08/2017	GW2d	p/m-Xylene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	o-Xylene	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW2d	Styrene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Bromoform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	Isopropylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		<4***	ug/l	-		
16/08/2017	GW2d	Bromobenzene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	1,2,3-Trichloropropane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	Propylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	2-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	4-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	tert-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	sec-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	4-Isopropyltoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,3-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,4-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	n-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,2-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW2d	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l		0.4	
16/08/2017	GW2d	Hexachlorobutadiene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2d	Naphthalene	Headspace GC-MS	Annually		<2***	ug/l		1	

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017			
16/08/2017	GW2d	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW2s	Cyanide	Flow Injection Analyser	Annually		dry	mg/l	0.0375		
16/08/2017	GW2s	Flouride	Ion Selective Electrode	Annually		dry	mg/l	1		
16/08/2017	GW2s	Mercury	ICP-OES	Annually		dry	ug/l	0.75		
16/08/2017	GW2s	Sulphate	Photometric Analysis	Annually		dry	mg/l	187.5		
16/08/2017	GW2s	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		dry	mg/l	No Change		
16/08/2017	GW2s	Ortho-Phosphate	Photometric Analysis	Annually		dry	mg/l	0.035		
16/08/2017	GW2s	TON	Photometric Analysis	Annually		dry	mg/l		No abnormal change	
16/08/2017	GW2s	Residue on Evaporation	Gravimetric	Annually		dry	mg/l		1000	
16/08/2017	GW2s	Semi Volatile Organic Compounds	GC-MS	Annually		dry	ug/l		0.1	
16/08/2017	GW2s	Volatile Organic Compounds	Headspace GC-MS	Annually		dry	ug/l		30	
16/08/2017	GW2s	Boron (B)	ICP-OES	Annually		dry	ug/l	750		
16/08/2017	GW2s	Total Chromium (Cr)	ICP-OES	Annually		dry	ug/l	37.5		
16/08/2017	GW2s	Cadmium (Cd)	ICP-OES	Annually		dry	ug/l	3.75		
16/08/2017	GW2s	Calcium (Ca)	ICP-OES	Annually		dry	mg/l		200	
16/08/2017	GW2s	Copper (Cu)	ICP-OES	Annually		dry	ug/l	1.5		
16/08/2017	GW2s	Iron (Fe)	ICP-OES	Annually		dry	mg/l	1		
16/08/2017	GW2s	Lead (Pb)	ICP-OES	Annually		dry	ug/l	18.75		
16/08/2017	GW2s	Magnesium (Mg)	ICP-OES	Annually		dry	mg/l	50		
16/08/2017	GW2s	Manganese (Mn)	ICP-OES	Annually		dry	ug/l	50		
16/08/2017	GW2s	Nickel (Ni)	ICP-OES	Annually		dry	ug/l	20		
16/08/2017	GW2s	Potassium (K)	ICP-OES	Annually		dry	mg/l	5		
16/08/2017	GW2s	Sodium (Na)	ICP-OES	Annually		dry	mg/l	150		
16/08/2017	GW2s	Zinc (Zn)	ICP-OES	Annually		dry	ug/l	100		
16/08/2017	GW2s	2-Chlorophenol	GC-MS	Annually		dry	ug/l		200	
16/08/2017	GW2s	2-Methylphenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	2-Nitrophenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	2,4-Dichlorophenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	2,4-Dimethylphenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	2,4,5-Trichlorophenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	2,4,6-Trichlorophenol	GC-MS	Annually		dry	ug/l		200	
16/08/2017	GW2s	4-Chloro-3-methylphenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	4-Methylphenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	4-Nitrophenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Pentachlorophenol	GC-MS	Annually		dry	ug/l		2	
16/08/2017	GW2s	Phenol	GC-MS	Annually		dry	ug/l		0.5	
16/08/2017	GW2s	2-Chloronaphthalene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	2-Methylnaphthalene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Naphthalene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Acenaphthylene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Acenaphthene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Fluorene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Phenanthrene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Anthracene	GC-MS	Annually		dry	ug/l		10000	

Groundwater/Soil monitoring template					Lic No:	W0076-01	Year	2017	
16/08/2017	GW2s	Fluoranthene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Pyrene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Benzo(a)anthracene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Chrysene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Benzo(bk)fluoranthene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Benzo(a)pyrene	GC-MS	Annually		dry	ug/l		0.01
16/08/2017	GW2s	Indeno(123cd)pyrene	GC-MS	Annually		dry	ug/l		0.05
16/08/2017	GW2s	Dibenzo(ah)anthracene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Benzo(ghi)perylene	GC-MS	Annually		dry	ug/l		0.05
16/08/2017	GW2s	Bis(2-ethylhexyl) phthalate	GC-MS	Annually		dry	ug/l		5
16/08/2017	GW2s	Butylbenzyl phthalate	GC-MS	Annually		dry	ug/l		5
16/08/2017	GW2s	Di-n-butyl phthalate	GC-MS	Annually		dry	ug/l		2
16/08/2017	GW2s	Di-n-Octyl phthalate	GC-MS	Annually		dry	ug/l		5
16/08/2017	GW2s	Diethyl phthalate	GC-MS	Annually		dry	ug/l		5
16/08/2017	GW2s	Dimethyl phthalate	GC-MS	Annually		dry	ug/l		5
16/08/2017	GW2s	1,2-Dichlorobenzene	GC-MS	Annually		dry	ug/l		10
16/08/2017	GW2s	1,2,4-Trichlorobenzene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,3-Dichlorobenzene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,4-Dichlorobenzene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	2-Nitroaniline	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	2,4-Dinitrotoluene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	2,6-Dinitrotoluene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	3-Nitroaniline	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	4-Bromophenylphenylether	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	4-Chloroaniline	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	4-Chlorophenylphenylether	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	4-Nitroaniline	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Azobenzene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Bis(2-chloroethoxy)methane	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Bis(2-chloroethyl)ether	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Carbazole	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Dibenzofuran	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Hexachlorobenzene	GC-MS	Annually		dry	ug/l		0.03
16/08/2017	GW2s	Hexachlorobutadiene	GC-MS	Annually		dry	ug/l		0.1
16/08/2017	GW2s	Hexachlorocyclopentadiene	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Hexachloroethane	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Isophorone	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	N-nitrosodi-n-propylamine	GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Nitrobenzene	GC-MS	Annually		dry	ug/l		10
16/08/2017	GW2s	Dichlorodifluoromethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually		dry	ug/l		30
16/08/2017	GW2s	Chloromethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Vinyl Chloride	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Bromomethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Chloroethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Trichlorofluoromethane	Headspace GC-MS	Annually		dry	ug/l	-	

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017			
16/08/2017	GW2s	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Dichloromethane (DCM)	Headspace GC-MS	Annually		dry	ug/l		10	
16/08/2017	GW2s	trans-1-2-Dichloroethene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	1,1-Dichloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	cis-1-2-Dichloroethene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	2,2-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Bromochloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Chloroform	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	1,1,1-Trichloroethane	Headspace GC-MS	Annually		dry	ug/l		500	
16/08/2017	GW2s	1,1-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Carbon tetrachloride	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	1,2-Dichloroethane	Headspace GC-MS	Annually		dry	ug/l		3	
16/08/2017	GW2s	Benzene	Headspace GC-MS	Annually		dry	ug/l		1	
16/08/2017	GW2s	Trichloroethene (TCE)	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	1,2-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Dibromomethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Bromodichloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Toluene	Headspace GC-MS	Annually		dry	ug/l		10	
16/08/2017	GW2s	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	1,1,2-Trichloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		dry	ug/l		40	
16/08/2017	GW2s	1,3-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Dibromochloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	1,2-Dibromoethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Chlorobenzene	Headspace GC-MS	Annually		dry	ug/l		1	
16/08/2017	GW2s	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW2s	Ethylbenzene	Headspace GC-MS	Annually		dry	ug/l		10	

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017		
16/08/2017	GW2s	p/m-Xylene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	o-Xylene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Styrene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Bromoform	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Isopropylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Bromobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,2,3-Trichloropropane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Propylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	2-Chlorotoluene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	4-Chlorotoluene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	tert-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	sec-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	4-Isopropyltoluene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,3-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,4-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	n-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,2-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	0.4
16/08/2017	GW2s	Hexachlorobutadiene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW2s	Naphthalene	Headspace GC-MS	Annually		dry	ug/l	-	1
16/08/2017	GW2s	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	

*** - Result less than the laboratory Limit of Detection

.+ where average indicates arithmetic mean

++. maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Groundwater/Soil monitoring template										
				Lic No:	W0076-01	Year	2017			
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	IGV	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
03/01, 12/04, 16/08, 11/10	GW1d	pH	pH meter (Electrode)	Quarterly	7.39	6.99	pH units	6.5 < pH < 9.5		
03/01, 12/04, 16/08, 11/10	GW1d	EC	Conductivity meter (Electrode)	Quarterly	1837	1798	µS/cm	1875		
03/01, 12/04, 16/08, 11/10	GW1d	DO	Dissolved oxygen meter (Electrode)	Quarterly	47	35	%		No abnormal change	
03/01, 12/04, 16/08, 11/10	GW1d	Temperature	Thermometer	Quarterly	12.2	11.04	Degrees C		25°C	
03/01, 12/04, 16/08, 11/10	GW1d	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	36.44	27.62	mg/l	0.175		
03/01, 12/04, 16/08, 11/10	GW1d	Chloride	Photometric Analysis	Quarterly	142.2	136.08	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW1d	TOC	TOC Analyser	Quarterly	14	12.00	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW1s	pH	pH meter (Electrode)	Quarterly	7.73	7.46	pH units	6.5 < pH < 9.5		
03/01, 12/04, 16/08, 11/10	GW1s	EC	Conductivity meter (Electrode)	Quarterly	5240	3943	µS/cm	1875		
03/01, 12/04, 16/08, 11/10	GW1s	DO	Dissolved oxygen meter (Electrode)	Quarterly	63	44	%		No abnormal change	
03/01, 12/04, 16/08, 11/10	GW1s	Temperature	Thermometer	Quarterly	11.5	10.83	Degrees C		25°C	
03/01, 12/04, 16/08, 11/10	GW1s	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	4.86	3.83	mg/l	0.175		
03/01, 12/04, 16/08, 11/10	GW1s	Chloride	Photometric Analysis	Quarterly	165.6	161.57	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW1s	TOC	TOC Analyser	Quarterly	9	4.67	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW3d	pH	pH meter (Electrode)	Quarterly	7.25	6.91	pH units	6.5 < pH < 9.5		
03/01, 12/04, 16/08, 11/10	GW3d	EC	Conductivity meter (Electrode)	Quarterly	1177	1120	µS/cm	1875		
03/01, 12/04, 16/08, 11/10	GW3d	DO	Dissolved oxygen meter (Electrode)	Quarterly	31	23	%		No abnormal change	
03/01, 12/04, 16/08, 11/10	GW3d	Temperature	Thermometer	Quarterly	11.9	10.90	Degrees C		25°C	
03/01, 12/04, 16/08, 11/10	GW3d	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	3.34	2.33	mg/l	0.175		
03/01, 12/04, 16/08, 11/10	GW3d	Chloride	Photometric Analysis	Quarterly	9.5	7.35	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW3d	TOC	TOC Analyser	Quarterly	22	14.75	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW3s	pH	pH meter (Electrode)	Quarterly	7.24	6.90	pH units	6.5 < pH < 9.5		
03/01, 12/04, 16/08, 11/10	GW3s	EC	Conductivity meter (Electrode)	Quarterly	1055	1024	µS/cm	1875		
03/01, 12/04, 16/08, 11/10	GW3s	DO	Dissolved oxygen meter (Electrode)	Quarterly	30	25	%		No abnormal change	

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03/01, 12/04, 16/08, 11/10	GW3s	Temperature	Thermometer	Quarterly	12.1	10.97	Degrees C	25°C	
03/01, 12/04, 16/08, 11/10	GW3s	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	5.11	2.45	mg/l	0.175	
03/01, 12/04, 16/08, 11/10	GW3s	Chloride	Photometric Analysis	Quarterly	9.2	5.20	mg/l	187.5	
03/01, 12/04, 16/08, 11/10	GW3s	TOC	TOC Analyser	Quarterly	23	15.67	mg/l	187.5	
03/01, 12/04, 16/08, 11/10	GW4d	pH	pH meter (Electrode)	Quarterly	7.24	6.91	pH units	6.5 < pH < 9.5	
03/01, 12/04, 16/08, 11/10	GW4d	EC	Conductivity meter (Electrode)	Quarterly	2670	1579	µS/cm	1875	
03/01, 12/04, 16/08, 11/10	GW4d	DO	Dissolved oxygen meter (Electrode)	Quarterly	42	37	%		No abnormal change
03/01, 12/04, 16/08, 11/10	GW4d	Temperature	Thermometer	Quarterly	12.5	11.08	Degrees C	25°C	
03/01, 12/04, 16/08, 11/10	GW4d	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	10.34	3.57	mg/l	0.175	
03/01, 12/04, 16/08, 11/10	GW4d	Chloride	Photometric Analysis	Quarterly	280.3	165.03	mg/l	187.5	
03/01, 12/04, 16/08, 11/10	GW4d	TOC	TOC Analyser	Quarterly	22	12.00	mg/l	187.5	
03/01, 12/04, 16/08, 11/10	GW4s	pH	pH meter (Electrode)	Quarterly	dry	dry	pH units	6.5 < pH < 9.5	
03/01, 12/04, 16/08, 11/10	GW4s	EC	Conductivity meter (Electrode)	Quarterly	dry	dry	µS/cm	1875	
03/01, 12/04, 16/08, 11/10	GW4s	DO	Dissolved oxygen meter (Electrode)	Quarterly	dry	dry	%		No abnormal change
03/01, 12/04, 16/08, 11/10	GW4s	Temperature	Thermometer	Quarterly	dry	dry	Degrees C	25°C	
03/01, 12/04, 16/08, 11/10	GW4s	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	dry	dry	mg/l	0.175	
03/01, 12/04, 16/08, 11/10	GW4s	Chloride	Photometric Analysis	Quarterly	dry	dry	mg/l	187.5	
03/01, 12/04, 16/08, 11/10	GW4s	TOC	TOC Analyser	Quarterly	dry	dry	mg/l	187.5	
03/01, 12/04, 16/08, 11/10	GW5d	pH	pH meter (Electrode)	Quarterly	6.85	6.55	pH units	6.5 < pH < 9.5	
03/01, 12/04, 16/08, 11/10	GW5d	EC	Conductivity meter (Electrode)	Quarterly	2440	1751	µS/cm	1875	
03/01, 12/04, 16/08, 11/10	GW5d	DO	Dissolved oxygen meter (Electrode)	Quarterly	29	24	%		No abnormal change
03/01, 12/04, 16/08, 11/10	GW5d	Temperature	Thermometer	Quarterly	12.4	11.18	Degrees C	25°C	
03/01, 12/04, 16/08, 11/10	GW5d	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	2.13	0.67	mg/l	0.175	
03/01, 12/04, 16/08, 11/10	GW5d	Chloride	Photometric Analysis	Quarterly	373.6	330.23	mg/l	187.5	
03/01, 12/04, 16/08, 11/10	GW5d	TOC	TOC Analyser	Quarterly	28	18.50	mg/l	187.5	
03/01, 12/04, 16/08, 11/10	GW5s	pH	pH meter (Electrode)	Quarterly	dry	dry	pH units	6.5 < pH < 9.5	
03/01, 12/04, 16/08, 11/10	GW5s	EC	Conductivity meter (Electrode)	Quarterly	dry	dry	µS/cm	1875	
03/01, 12/04, 16/08, 11/10	GW5s	DO	Dissolved oxygen meter (Electrode)	Quarterly	dry	dry	%		No abnormal change

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03/01, 12/04, 16/08, 11/10	GW5s	Temperature	Thermometer	Quarterly	dry	dry	Degrees C		25°C	
03/01, 12/04, 16/08, 11/10	GW5s	Ammoniacal Nitrogen	Photometric Analysis	Quarterly	dry	dry	mg/l	0.175		
03/01, 12/04, 16/08, 11/10	GW5s	Chloride	Photometric Analysis	Quarterly	dry	dry	mg/l	187.5		
03/01, 12/04, 16/08, 11/10	GW5s	TOC	TOC Analyser	Quarterly	dry	dry	mg/l	187.5		
16/08/2017	GW1d	Cyanide	Flow Injection Analyser	Annually		<0.01***	mg/l	0.0375		
16/08/2017	GW1d	Flouride	Ion Selective Electrode	Annually		<0.3***	mg/l	1		
16/08/2017	GW1d	Mercury	ICP-OES	Annually		<1***	ug/l	0.75		
16/08/2017	GW1d	Sulphate	Photometric Analysis	Annually		27.1	mg/l	187.5		
16/08/2017	GW1d	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		850	mg/l	No Change		
16/08/2017	GW1d	Ortho-Phosphate	Photometric Analysis	Annually		4.26	mg/l	0.035		
16/08/2017	GW1d	TON	Photometric Analysis	Annually		<0.2***	mg/l		No abnormal change	
16/08/2017	GW1d	Residue on Evaporation	Gravimetric	Annually		1933	mg/l		1000	
16/08/2017	GW1d	Boron (B)	ICP-OES	Annually		375	ug/l	750		
16/08/2017	GW1d	Total Chromium (Cr)	ICP-OES	Annually		2.1	ug/l	37.5		
16/08/2017	GW1d	Cadmium (Cd)	ICP-OES	Annually		<0.5***	ug/l	3.75		
16/08/2017	GW1d	Calcium (Ca)	ICP-OES	Annually		150.7	mg/l	N/A	200	
16/08/2017	GW1d	Copper (Cu)	ICP-OES	Annually		<7***	ug/l	1.5		
16/08/2017	GW1d	Iron (Fe)	ICP-OES	Annually		4482	mg/l	1		
16/08/2017	GW1d	Lead (Pb)	ICP-OES	Annually		<5***	ug/l	18.75		
16/08/2017	GW1d	Magnesium (Mg)	ICP-OES	Annually		33.6	mg/l	50		
16/08/2017	GW1d	Manganese (Mn)	ICP-OES	Annually		833	ug/l	50		
16/08/2017	GW1d	Nickel (Ni)	ICP-OES	Annually		<2***	ug/l	20		
16/08/2017	GW1d	Potassium (K)	ICP-OES	Annually		30.6	mg/l	5		
16/08/2017	GW1d	Sodium (Na)	ICP-OES	Annually		114.4	mg/l	150		
16/08/2017	GW1d	Zinc (Zn)	ICP-OES	Annually		18	ug/l	100		
16/08/2017	GW1d	2-Chlorophenol	GC-MS	Annually		<1***	ug/l		200	
16/08/2017	GW1d	2-Methylphenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW1d	2-Nitrophenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW1d	2,4-Dichlorophenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW1d	2,4-Dimethylphenol	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW1d	2,4,5-Trichlorophenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW1d	2,4,6-Trichlorophenol	GC-MS	Annually		<1***	ug/l		200	
16/08/2017	GW1d	4-Chloro-3-methylphenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW1d	4-Methylphenol	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW1d	4-Nitrophenol	GC-MS	Annually		<10***	ug/l	-		
16/08/2017	GW1d	Pentachlorophenol	GC-MS	Annually		<1***	ug/l		2	
16/08/2017	GW1d	Phenol	GC-MS	Annually		1.5	ug/l		0.5	
16/08/2017	GW1d	2-Chloronaphthalene	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW1d	2-Methylnaphthalene	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW1d	Naphthalene	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW1d	Acenaphthylene	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW1d	Acenaphthene	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW1d	Fluorene	GC-MS	Annually		<0.5***	ug/l	-		

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16/08/2017	GW1d	Phenanthrene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Anthracene	GC-MS	Annually	<0.5***	ug/l		10000
16/08/2017	GW1d	Fluoranthene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Pyrene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Benzo(a)anthracene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Chrysene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Benzo(bk)fluoranthene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	Benzo(a)pyrene	GC-MS	Annually	<1***	ug/l		0.01
16/08/2017	GW1d	Indeno(123cd)pyrene	GC-MS	Annually	<1***	ug/l		0.05
16/08/2017	GW1d	Dibenzo(ah)anthracene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Benzo(ghi)perylene	GC-MS	Annually	<0.5***	ug/l		0.05
16/08/2017	GW1d	Bis(2-ethylhexyl) phthalate	GC-MS	Annually	<5***	ug/l		5
16/08/2017	GW1d	Butylbenzyl phthalate	GC-MS	Annually	<1***	ug/l		5
16/08/2017	GW1d	Di-n-butyl phthalate	GC-MS	Annually	<1.5***	ug/l		2
16/08/2017	GW1d	Di-n-Octyl phthalate	GC-MS	Annually	<1***	ug/l		5
16/08/2017	GW1d	Diethyl phthalate	GC-MS	Annually	<1***	ug/l		5
16/08/2017	GW1d	Dimethyl phthalate	GC-MS	Annually	<1***	ug/l		5
16/08/2017	GW1d	1,2-Dichlorobenzene	GC-MS	Annually	<1***	ug/l		10
16/08/2017	GW1d	1,2,4-Trichlorobenzene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	1,3-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	1,4-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-	

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16/08/2017	GW1d	2-Nitroaniline	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	2,4-Dinitrotoluene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	2,6-Dinitrotoluene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	3-Nitroaniline	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	4-Bromophenylphenylether	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	4-Chloroaniline	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	4-Chlorophenylphenylether	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	4-Nitroaniline	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Azobenzene	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Bis(2-chloroethoxy)methane	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Bis(2-chloroethyl)ether	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	Carbazole	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Dibenzofuran	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Hexachlorobenzene	GC-MS	Annually	<1***	ug/l		0.03
16/08/2017	GW1d	Hexachlorobutadiene	GC-MS	Annually	<1***	ug/l		0.1
16/08/2017	GW1d	Hexachlorocyclopentadiene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	Hexachloroethane	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	Isophorone	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	N-nitrosodi-n-propylamine	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1d	Nitrobenzene	GC-MS	Annually	<1***	ug/l		10
16/08/2017	GW1d	Dichlorodifluoromethane	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW1d	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually	0.2	ug/l		30
16/08/2017	GW1d	Chloromethane	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1d	Vinyl Chloride	Headspace GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	Bromomethane	Headspace GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	Chloroethane	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1d	Trichlorofluoromethane	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1d	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1d	Dichloromethane (DCM)	Headspace GC-MS	Annually	<3***	ug/l		10
16/08/2017	GW1d	trans-1-2-Dichloroethene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1d	1,1-Dichloroethane	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1d	cis-1-2-Dichloroethene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1d	2,2-Dichloropropane	Headspace GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1d	Bromochloromethane	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW1d	Chloroform	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW1d	1,1,1-Trichloroethane	Headspace GC-MS	Annually	<2***	ug/l		500

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16/08/2017	GW1d	1,1-Dichloropropene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	Carbon tetrachloride	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	1,2-Dichloroethane	Headspace GC-MS	Annually		<2***	ug/l		3	
16/08/2017	GW1d	Benzene	Headspace GC-MS	Annually		<0.5***	ug/l		1	
16/08/2017	GW1d	Trichloroethene (TCE)	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	1,2-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	Dibromomethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	Bromodichloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	Toluene	Headspace GC-MS	Annually		57	ug/l		10	
16/08/2017	GW1d	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	1,1,2-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		<3***	ug/l		40	
16/08/2017	GW1d	1,3-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	Dibromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	1,2-Dibromoethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	Chlorobenzene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW1d	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	Ethylbenzene	Headspace GC-MS	Annually		<1***	ug/l		10	
16/08/2017	GW1d	p/m-Xylene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	o-Xylene	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW1d	Styrene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	Bromoform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	Isopropylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		<4***	ug/l	-		
16/08/2017	GW1d	Bromobenzene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	1,2,3-Trichloropropane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	Propylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		

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16/08/2017	GW1d	2-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	4-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	tert-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	sec-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	4-Isopropyltoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	1,3-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	1,4-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	n-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	1,2-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1d	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l		0.4	
16/08/2017	GW1d	Hexachlorobutadiene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1d	Naphthalene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW1d	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	Cyanide	Flow Injection Analyser	Annually		<0.01***	mg/l	0.0375		
16/08/2017	GW1s	Flouride	Ion Selective Electrode	Annually		<0.3***	mg/l	1		
16/08/2017	GW1s	Mercury	ICP-OES	Annually		<1***	ug/l	0.75		
16/08/2017	GW1s	Sulphate	Photometric Analysis	Annually		3340.7	mg/l	187.5		
16/08/2017	GW1s	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		878	mg/l	No Change		
16/08/2017	GW1s	Ortho-Phosphate	Photometric Analysis	Annually		<0.06***	mg/l	0.035		
16/08/2017	GW1s	TON	Photometric Analysis	Annually		0.8	mg/l		No abnormal change	
16/08/2017	GW1s	Residue on Evaporation	Gravimetric	Annually		10008	mg/l		1000	
16/08/2017	GW1s	Boron (B)	ICP-OES	Annually		401	ug/l	750		
16/08/2017	GW1s	Total Chromium (Cr)	ICP-OES	Annually		2.4	ug/l	37.5		
16/08/2017	GW1s	Cadmium (Cd)	ICP-OES	Annually		<0.5***	ug/l	3.75		
16/08/2017	GW1s	Calcium (Ca)	ICP-OES	Annually		157.1	mg/l		200	
16/08/2017	GW1s	Copper (Cu)	ICP-OES	Annually		<7***	ug/l	1.5		
16/08/2017	GW1s	Iron (Fe)	ICP-OES	Annually		5628	mg/l	1		
16/08/2017	GW1s	Lead (Pb)	ICP-OES	Annually		<5***	ug/l	18.75		

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16/08/2017	GW1s	Magnesium (Mg)	ICP-OES	Annually	37.5	mg/l	50
16/08/2017	GW1s	Manganese (Mn)	ICP-OES	Annually	831	ug/l	50
16/08/2017	GW1s	Nickel (Ni)	ICP-OES	Annually	<2***	ug/l	20
16/08/2017	GW1s	Potassium (K)	ICP-OES	Annually	36	mg/l	5
16/08/2017	GW1s	Sodium (Na)	ICP-OES	Annually	135.6	mg/l	150
16/08/2017	GW1s	Zinc (Zn)	ICP-OES	Annually	14	ug/l	100
16/08/2017	GW1s	2-Chlorophenol	GC-MS	Annually	<1***	ug/l	200
16/08/2017	GW1s	2-Methylphenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	2-Nitrophenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	2,4-Dichlorophenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	2,4-Dimethylphenol	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	2,4,5-Trichlorophenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	2,4,6-Trichlorophenol	GC-MS	Annually	<1***	ug/l	200
16/08/2017	GW1s	4-Chloro-3-methylphenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	4-Methylphenol	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	4-Nitrophenol	GC-MS	Annually	<10***	ug/l	-
16/08/2017	GW1s	Pentachlorophenol	GC-MS	Annually	<1***	ug/l	2
16/08/2017	GW1s	Phenol	GC-MS	Annually	<1***	ug/l	0.5
16/08/2017	GW1s	2-Chloronaphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	2-Methylnaphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	Naphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	Acenaphthylene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Acenaphthene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	Fluorene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Phenanthrene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Anthracene	GC-MS	Annually	<0.5***	ug/l	10000
16/08/2017	GW1s	Fluoranthene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Pyrene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Benzo(a)anthracene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Chrysene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Benzo(bk)fluoranthene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	Benzo(a)pyrene	GC-MS	Annually	<1***	ug/l	0.01
16/08/2017	GW1s	Indeno(123cd)pyrene	GC-MS	Annually	<1***	ug/l	0.05
16/08/2017	GW1s	Dibenzo(ah)anthracene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Benzo(ghi)perylene	GC-MS	Annually	<0.5***	ug/l	0.05
16/08/2017	GW1s	Bis(2-ethylhexyl) phthalate	GC-MS	Annually	<5***	ug/l	5
16/08/2017	GW1s	Butylbenzyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW1s	Di-n-butyl phthalate	GC-MS	Annually	<1.5***	ug/l	2
16/08/2017	GW1s	Di-n-Octyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW1s	Diethyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW1s	Dimethyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW1s	1,2-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	10
16/08/2017	GW1s	1,2,4-Trichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	1,3-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	1,4-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	2-Nitroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	2,4-Dinitrotoluene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	2,6-Dinitrotoluene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	3-Nitroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	4-Bromophenylphenylether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	4-Chloroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	4-Chlorophenylphenylether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW1s	4-Nitroaniline	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Azobenzene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW1s	Bis(2-chloroethoxy)methane	GC-MS	Annually	<0.5***	ug/l	-

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16/08/2017	GW1s	Bis(2-chloroethyl)ether	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1s	Carbazole	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1s	Dibenzofuran	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1s	Hexachlorobenzene	GC-MS	Annually	<1***	ug/l		0.03
16/08/2017	GW1s	Hexachlorobutadiene	GC-MS	Annually	<1***	ug/l		0.1
16/08/2017	GW1s	Hexachlorocyclopentadiene	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1s	Hexachloroethane	GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1s	Isophorone	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1s	N-nitrosodi-n-propylamine	GC-MS	Annually	<0.5***	ug/l	-	
16/08/2017	GW1s	Nitrobenzene	GC-MS	Annually	<1***	ug/l		10
16/08/2017	GW1s	Dichlorodifluoromethane	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW1s	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually	0.2	ug/l		30
16/08/2017	GW1s	Chloromethane	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	Vinyl Chloride	Headspace GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1s	Bromomethane	Headspace GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1s	Chloroethane	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	Trichlorofluoromethane	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	Dichloromethane (DCM)	Headspace GC-MS	Annually	<3***	ug/l		10
16/08/2017	GW1s	trans-1-2-Dichloroethene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	1,1-Dichloroethane	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	cis-1-2-Dichloroethene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	2,2-Dichloropropane	Headspace GC-MS	Annually	<1***	ug/l	-	
16/08/2017	GW1s	Bromochloromethane	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW1s	Chloroform	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW1s	1,1,1-Trichloroethane	Headspace GC-MS	Annually	<2***	ug/l		500
16/08/2017	GW1s	1,1-Dichloropropene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	Carbon tetrachloride	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW1s	1,2-Dichloroethane	Headspace GC-MS	Annually	<2***	ug/l		3
16/08/2017	GW1s	Benzene	Headspace GC-MS	Annually	<0.5***	ug/l		1
16/08/2017	GW1s	Trichloroethene (TCE)	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW1s	1,2-Dichloropropane	Headspace GC-MS	Annually	<2***	ug/l	-	

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16/08/2017	GW1s	Dibromomethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	Bromodichloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	Toluene	Headspace GC-MS	Annually		91	ug/l		10	
16/08/2017	GW1s	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	1,1,2-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		<3***	ug/l		40	
16/08/2017	GW1s	1,3-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	Dibromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	1,2-Dibromoethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	Chlorobenzene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW1s	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	Ethylbenzene	Headspace GC-MS	Annually		<1***	ug/l		10	
16/08/2017	GW1s	p/m-Xylene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	o-Xylene	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW1s	Styrene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	Bromoform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	Isopropylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		<4***	ug/l	-		
16/08/2017	GW1s	Bromobenzene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	1,2,3-Trichloropropane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	Propylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	2-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	4-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	tert-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	sec-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017			
16/08/2017	GW1s	4-Isopropyltoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	1,3-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	1,4-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	n-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	1,2-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW1s	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l		0.4	
16/08/2017	GW1s	Hexachlorobutadiene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW1s	Naphthalene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW1s	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	Cyanide	Flow Injection Analyser	Annually		<0.01***	mg/l	0.0375		
16/08/2017	GW3d	Flouride	Ion Selective Electrode	Annually		<0.3***	mg/l	1	1	
16/08/2017	GW3d	Mercury	ICP-OES	Annually		<1***	ug/l	0.75		
16/08/2017	GW3d	Sulphate	Photometric Analysis	Annually		<0.5***	mg/l	187.5		
16/08/2017	GW3d	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		624	mg/l	No Change		
16/08/2017	GW3d	Ortho-Phosphate	Photometric Analysis	Annually		<0.06***	mg/l	0.035		
16/08/2017	GW3d	TON	Photometric Analysis	Annually		4.2	mg/l		No abnormal change	
16/08/2017	GW3d	Residue on Evaporation	Gravimetric	Annually		879	mg/l		1000	
16/08/2017	GW3d	Boron (B)	ICP-OES	Annually		16	ug/l	750		
16/08/2017	GW3d	Total Chromium (Cr)	ICP-OES	Annually		<1.5***	ug/l	37.5		
16/08/2017	GW3d	Cadmium (Cd)	ICP-OES	Annually		<0.5***	ug/l	3.75		
16/08/2017	GW3d	Calcium (Ca)	ICP-OES	Annually		201.1	mg/l		200	
16/08/2017	GW3d	Copper (Cu)	ICP-OES	Annually		<7***	ug/l	1.5		
16/08/2017	GW3d	Iron (Fe)	ICP-OES	Annually		12770	mg/l	1		
16/08/2017	GW3d	Lead (Pb)	ICP-OES	Annually		<5***	ug/l	18.75		
16/08/2017	GW3d	Magnesium (Mg)	ICP-OES	Annually		15.1	mg/l	50		
16/08/2017	GW3d	Manganese (Mn)	ICP-OES	Annually		1630	ug/l	50		
16/08/2017	GW3d	Nickel (Ni)	ICP-OES	Annually		3	ug/l	20		
16/08/2017	GW3d	Potassium (K)	ICP-OES	Annually		8.8	mg/l	5		
16/08/2017	GW3d	Sodium (Na)	ICP-OES	Annually		23.4	mg/l	150		
16/08/2017	GW3d	Zinc (Zn)	ICP-OES	Annually		7	ug/l	100		
16/08/2017	GW3d	2-Chlorophenol	GC-MS	Annually		<1***	ug/l		200	
16/08/2017	GW3d	2-Methylphenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW3d	2-Nitrophenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW3d	2,4-Dichlorophenol	GC-MS	Annually		<0.5***	ug/l	-		
16/08/2017	GW3d	2,4-Dimethylphenol	GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW3d	2,4,5-Trichlorophenol	GC-MS	Annually		<0.5***	ug/l	-		

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16/08/2017	GW3d	2,4,6-Trichlorophenol	GC-MS	Annually	<1***	ug/l	200
16/08/2017	GW3d	4-Chloro-3-methylphenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	4-Methylphenol	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	4-Nitrophenol	GC-MS	Annually	<10***	ug/l	-
16/08/2017	GW3d	Pentachlorophenol	GC-MS	Annually	<1***	ug/l	2
16/08/2017	GW3d	Phenol	GC-MS	Annually	<1***	ug/l	0.5
16/08/2017	GW3d	2-Chloronaphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	2-Methylnaphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	Naphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	Acenaphthylene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Acenaphthene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	Fluorene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Phenanthrene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Anthracene	GC-MS	Annually	<0.5***	ug/l	10000
16/08/2017	GW3d	Fluoranthene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Pyrene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Benzo(a)anthracene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Chrysene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Benzo(bk)fluoranthene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	Benzo(a)pyrene	GC-MS	Annually	<1***	ug/l	0.01
16/08/2017	GW3d	Indeno(123cd)pyrene	GC-MS	Annually	<1***	ug/l	0.05
16/08/2017	GW3d	Dibenzo(ah)anthracene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Benzo(ghi)perylene	GC-MS	Annually	<0.5***	ug/l	0.05
16/08/2017	GW3d	Bis(2-ethylhexyl) phthalate	GC-MS	Annually	<5***	ug/l	5
16/08/2017	GW3d	Butylbenzyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW3d	Di-n-butyl phthalate	GC-MS	Annually	<1.5***	ug/l	2
16/08/2017	GW3d	Di-n-Octyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW3d	Diethyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW3d	Dimethyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW3d	1,2-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	10
16/08/2017	GW3d	1,2,4-Trichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	1,3-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	1,4-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	2-Nitroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	2,4-Dinitrotoluene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	2,6-Dinitrotoluene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	3-Nitroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	4-Bromophenylphenylether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	4-Chloroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	4-Chlorophenylphenylether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	4-Nitroaniline	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Azobenzene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Bis(2-chloroethoxy)methane	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Bis(2-chloroethyl)ether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	Carbazole	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Dibenzofuran	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Hexachlorobenzene	GC-MS	Annually	<1***	ug/l	0.03
16/08/2017	GW3d	Hexachlorobutadiene	GC-MS	Annually	<1***	ug/l	0.1
16/08/2017	GW3d	Hexachlorocyclopentadiene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	Hexachloroethane	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW3d	Isophorone	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	N-nitrosodi-n-propylamine	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW3d	Nitrobenzene	GC-MS	Annually	<1***	ug/l	10

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16/08/2017	GW3d	Dichlorodifluoromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually		<0.1***	ug/l		30	
16/08/2017	GW3d	Chloromethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	Vinyl Chloride	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW3d	Bromomethane	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW3d	Chloroethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	Trichlorofluoromethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	Dichloromethane (DCM)	Headspace GC-MS	Annually		<3***	ug/l		10	
16/08/2017	GW3d	trans-1-2-Dichloroethene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,1-Dichloroethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	cis-1-2-Dichloroethene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	2,2-Dichloropropane	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW3d	Bromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Chloroform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	1,1,1-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l		500	
16/08/2017	GW3d	1,1-Dichloropropene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	Carbon tetrachloride	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	1,2-Dichloroethane	Headspace GC-MS	Annually		<2***	ug/l		3	
16/08/2017	GW3d	Benzene	Headspace GC-MS	Annually		<0.5***	ug/l		1	
16/08/2017	GW3d	Trichloroethene (TCE)	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,2-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Dibromomethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	Bromodichloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Toluene	Headspace GC-MS	Annually		<5***	ug/l		10	
16/08/2017	GW3d	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	1,1,2-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		

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16/08/2017	GW3d	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		<3***	ug/l		40	
16/08/2017	GW3d	1,3-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Dibromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	1,2-Dibromoethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Chlorobenzene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW3d	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Ethylbenzene	Headspace GC-MS	Annually		<1***	ug/l		10	
16/08/2017	GW3d	p/m-Xylene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	o-Xylene	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW3d	Styrene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Bromoform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	Isopropylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		<4***	ug/l	-		
16/08/2017	GW3d	Bromobenzene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW3d	1,2,3-Trichloropropane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	Propylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	2-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	4-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	tert-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	sec-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	4-Isopropyltoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,3-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,4-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	n-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,2-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		

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16/08/2017	GW3d	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l		0.4	
16/08/2017	GW3d	Hexachlorobutadiene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3d	Naphthalene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW3d	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW3s	Cyanide	Flow Injection Analyser	Annually		dry	mg/l	0.0375		
16/08/2017	GW3s	Flouride	Ion Selective Electrode	Annually		dry	mg/l	1		
16/08/2017	GW3s	Mercury	ICP-OES	Annually		dry	ug/l	0.75		
16/08/2017	GW3s	Sulphate	Photometric Analysis	Annually		dry	mg/l	187.5		
16/08/2017	GW3s	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		dry	mg/l	No Change		
16/08/2017	GW3s	Ortho-Phosphate	Photometric Analysis	Annually		dry	mg/l	0.035		
16/08/2017	GW3s	TON	Photometric Analysis	Annually		dry	mg/l		No abnormal change	
16/08/2017	GW3s	Residue on Evaporation	Gravimetric	Annually		dry	mg/l		1000	
16/08/2017	GW3s	Boron (B)	ICP-OES	Annually		dry	ug/l	750		
16/08/2017	GW3s	Total Chromium (Cr)	ICP-OES	Annually		dry	ug/l	37.5		
16/08/2017	GW3s	Cadmium (Cd)	ICP-OES	Annually		dry	ug/l	3.75		
16/08/2017	GW3s	Calcium (Ca)	ICP-OES	Annually		dry	mg/l		200	
16/08/2017	GW3s	Copper (Cu)	ICP-OES	Annually		dry	ug/l	1.5		
16/08/2017	GW3s	Iron (Fe)	ICP-OES	Annually		dry	mg/l	1		
16/08/2017	GW3s	Lead (Pb)	ICP-OES	Annually		dry	ug/l	18.75		
16/08/2017	GW3s	Magnesium (Mg)	ICP-OES	Annually		dry	mg/l	50		
16/08/2017	GW3s	Manganese (Mn)	ICP-OES	Annually		dry	ug/l	50		
16/08/2017	GW3s	Nickel (Ni)	ICP-OES	Annually		dry	ug/l	20		
16/08/2017	GW3s	Potassium (K)	ICP-OES	Annually		dry	mg/l	5		
16/08/2017	GW3s	Sodium (Na)	ICP-OES	Annually		dry	mg/l	150		
16/08/2017	GW3s	Zinc (Zn)	ICP-OES	Annually		dry	ug/l	100		
16/08/2017	GW3s	2-Chlorophenol	GC-MS	Annually		dry	ug/l		200	
16/08/2017	GW3s	2-Methylphenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	2-Nitrophenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	2,4-Dichlorophenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	2,4-Dimethylphenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	2,4,5-Trichlorophenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	2,4,6-Trichlorophenol	GC-MS	Annually		dry	ug/l		200	
16/08/2017	GW3s	4-Chloro-3-methylphenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	4-Methylphenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	4-Nitrophenol	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Pentachlorophenol	GC-MS	Annually		dry	ug/l		2	
16/08/2017	GW3s	Phenol	GC-MS	Annually		dry	ug/l		0.5	
16/08/2017	GW3s	2-Chloronaphthalene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	2-Methylnaphthalene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Naphthalene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Acenaphthylene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Acenaphthene	GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Fluorene	GC-MS	Annually		dry	ug/l	-		

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16/08/2017	GW3s	Phenanthrene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Anthracene	GC-MS	Annually	dry	ug/l		10000
16/08/2017	GW3s	Fluoranthene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Pyrene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Benzo(a)anthracene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Chrysene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Benzo(bk)fluoranthene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Benzo(a)pyrene	GC-MS	Annually	dry	ug/l		0.01
16/08/2017	GW3s	Indeno(123cd)pyrene	GC-MS	Annually	dry	ug/l		0.05
16/08/2017	GW3s	Dibenzo(ah)anthracene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Benzo(ghi)perylene	GC-MS	Annually	dry	ug/l		0.05
16/08/2017	GW3s	Bis(2-ethylhexyl) phthalate	GC-MS	Annually	dry	ug/l		5
16/08/2017	GW3s	Butylbenzyl phthalate	GC-MS	Annually	dry	ug/l		5
16/08/2017	GW3s	Di-n-butyl phthalate	GC-MS	Annually	dry	ug/l		2
16/08/2017	GW3s	Di-n-Octyl phthalate	GC-MS	Annually	dry	ug/l		5
16/08/2017	GW3s	Diethyl phthalate	GC-MS	Annually	dry	ug/l		5
16/08/2017	GW3s	Dimethyl phthalate	GC-MS	Annually	dry	ug/l		5
16/08/2017	GW3s	1,2-Dichlorobenzene	GC-MS	Annually	dry	ug/l		10
16/08/2017	GW3s	1,2,4-Trichlorobenzene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	1,3-Dichlorobenzene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	1,4-Dichlorobenzene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	2-Nitroaniline	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	2,4-Dinitrotoluene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	2,6-Dinitrotoluene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	3-Nitroaniline	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	4-Bromophenylphenylether	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	4-Chloroaniline	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	4-Chlorophenylphenylether	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	4-Nitroaniline	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Azobenzene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Bis(2-chloroethoxy)methane	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Bis(2-chloroethyl)ether	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Carbazole	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Dibenzofuran	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Hexachlorobenzene	GC-MS	Annually	dry	ug/l		0.03
16/08/2017	GW3s	Hexachlorobutadiene	GC-MS	Annually	dry	ug/l		0.1
16/08/2017	GW3s	Hexachlorocyclopentadiene	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Hexachloroethane	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Isophorone	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	N-nitrosodi-n-propylamine	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Nitrobenzene	GC-MS	Annually	dry	ug/l		10
16/08/2017	GW3s	Dichlorodifluoromethane	Headspace GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually	dry	ug/l		30
16/08/2017	GW3s	Chloromethane	Headspace GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Vinyl Chloride	Headspace GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Bromomethane	Headspace GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW3s	Chloroethane	Headspace GC-MS	Annually	dry	ug/l	-	

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16/08/2017	GW3s	Trichlorofluoromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Dichloromethane (DCM)	Headspace GC-MS	Annually		dry	ug/l		10	
16/08/2017	GW3s	trans-1-2-Dichloroethene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,1-Dichloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	cis-1-2-Dichloroethene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	2,2-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Bromochloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Chloroform	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,1,1-Trichloroethane	Headspace GC-MS	Annually		dry	ug/l		500	
16/08/2017	GW3s	1,1-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Carbon tetrachloride	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,2-Dichloroethane	Headspace GC-MS	Annually		dry	ug/l		3	
16/08/2017	GW3s	Benzene	Headspace GC-MS	Annually		dry	ug/l		1	
16/08/2017	GW3s	Trichloroethene (TCE)	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,2-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Dibromomethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Bromodichloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Toluene	Headspace GC-MS	Annually		dry	ug/l		10	
16/08/2017	GW3s	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,1,2-Trichloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		dry	ug/l		40	
16/08/2017	GW3s	1,3-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Dibromochloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,2-Dibromoethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Chlorobenzene	Headspace GC-MS	Annually		dry	ug/l		1	
16/08/2017	GW3s	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		dry	ug/l	-		

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16/08/2017	GW3s	Ethylbenzene	Headspace GC-MS	Annually		dry	ug/l		10	
16/08/2017	GW3s	p/m-Xylene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	o-Xylene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Styrene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Bromoform	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Isopropylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Bromobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,2,3-Trichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Propylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	2-Chlorotoluene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	4-Chlorotoluene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	tert-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	sec-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	4-Isopropyltoluene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,3-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,4-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	n-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,2-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		dry	ug/l		0.4	
16/08/2017	GW3s	Hexachlorobutadiene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW3s	Naphthalene	Headspace GC-MS	Annually		dry	ug/l		1	
16/08/2017	GW3s	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW4d	Cyanide	Flow Injection Analyser	Annually		<0.01***	mg/l	0.0375		
16/08/2017	GW4d	Flouride	Ion Selective Electrode	Annually		<0.3***	mg/l	1		

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017		
16/08/2017	GW4d	Mercury	ICP-OES	Annually		<1***	ug/l	0.75	
16/08/2017	GW4d	Sulphate	Photometric Analysis	Annually		61.2	mg/l	187.5	
16/08/2017	GW4d	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		462	mg/l	No Change	
16/08/2017	GW4d	Ortho-Phosphate	Photometric Analysis	Annually		<0.06***	mg/l	0.035	
16/08/2017	GW4d	TON	Photometric Analysis	Annually		4.2	mg/l		No abnormal change
16/08/2017	GW4d	Residue on Evaporation	Gravimetric	Annually		1388	mg/l		1000
16/08/2017	GW4d	Boron (B)	ICP-OES	Annually		63	ug/l	750	
16/08/2017	GW4d	Total Chromium (Cr)	ICP-OES	Annually		2.4	ug/l	37.5	
16/08/2017	GW4d	Cadmium (Cd)	ICP-OES	Annually		<0.5***	ug/l	3.75	
16/08/2017	GW4d	Calcium (Ca)	ICP-OES	Annually		342.2	mg/l		200
16/08/2017	GW4d	Copper (Cu)	ICP-OES	Annually		<7***	ug/l	1.5	
16/08/2017	GW4d	Iron (Fe)	ICP-OES	Annually		6178	mg/l	1	
16/08/2017	GW4d	Lead (Pb)	ICP-OES	Annually		<5***	ug/l	18.75	
16/08/2017	GW4d	Magnesium (Mg)	ICP-OES	Annually		26.8	mg/l	50	
16/08/2017	GW4d	Manganese (Mn)	ICP-OES	Annually		1951	ug/l	50	
16/08/2017	GW4d	Nickel (Ni)	ICP-OES	Annually		9	ug/l	20	
16/08/2017	GW4d	Potassium (K)	ICP-OES	Annually		9.4	mg/l	5	
16/08/2017	GW4d	Sodium (Na)	ICP-OES	Annually		192.2	mg/l	150	
16/08/2017	GW4d	Zinc (Zn)	ICP-OES	Annually		6	ug/l	100	
16/08/2017	GW4d	2-Chlorophenol	GC-MS	Annually		<1***	ug/l		200
16/08/2017	GW4d	2-Methylphenol	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	2-Nitrophenol	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	2,4-Dichlorophenol	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	2,4-Dimethylphenol	GC-MS	Annually		<1***	ug/l	-	
16/08/2017	GW4d	2,4,5-Trichlorophenol	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	2,4,6-Trichlorophenol	GC-MS	Annually		<1***	ug/l		200
16/08/2017	GW4d	4-Chloro-3-methylphenol	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	4-Methylphenol	GC-MS	Annually		<1***	ug/l	-	
16/08/2017	GW4d	4-Nitrophenol	GC-MS	Annually		<10***	ug/l	-	
16/08/2017	GW4d	Pentachlorophenol	GC-MS	Annually		<1***	ug/l		2
16/08/2017	GW4d	Phenol	GC-MS	Annually		<1***	ug/l		0.5
16/08/2017	GW4d	2-Chloronaphthalene	GC-MS	Annually		<1***	ug/l	-	
16/08/2017	GW4d	2-Methylnaphthalene	GC-MS	Annually		<1***	ug/l	-	
16/08/2017	GW4d	Naphthalene	GC-MS	Annually		<1***	ug/l	-	
16/08/2017	GW4d	Acenaphthylene	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	Acenaphthene	GC-MS	Annually		<1***	ug/l	-	
16/08/2017	GW4d	Fluorene	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	Phenanthrene	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	Anthracene	GC-MS	Annually		<0.5***	ug/l		10000
16/08/2017	GW4d	Fluoranthene	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	Pyrene	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	Benzo(a)anthracene	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	Chrysene	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	Benzo(bk)fluoranthene	GC-MS	Annually		<1***	ug/l	-	
16/08/2017	GW4d	Benzo(a)pyrene	GC-MS	Annually		<1***	ug/l		0.01
16/08/2017	GW4d	Indeno(123cd)pyrene	GC-MS	Annually		<1***	ug/l		0.05
16/08/2017	GW4d	Dibenzo(ah)anthracene	GC-MS	Annually		<0.5***	ug/l	-	
16/08/2017	GW4d	Benzo(ghi)perylene	GC-MS	Annually		<0.5***	ug/l		0.05
16/08/2017	GW4d	Bis(2-ethylhexyl) phthalate	GC-MS	Annually		<5***	ug/l		5

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16/08/2017	GW4d	Butylbenzyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW4d	Di-n-butyl phthalate	GC-MS	Annually	<1.5***	ug/l	2
16/08/2017	GW4d	Di-n-Octyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW4d	Diethyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW4d	Dimethyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW4d	1,2-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	10
16/08/2017	GW4d	1,2,4-Trichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	1,3-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	1,4-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	2-Nitroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	2,4-Dinitrotoluene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW4d	2,6-Dinitrotoluene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	3-Nitroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	4-Bromophenylphenylether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	4-Chloroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	4-Chlorophenylphenylether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	4-Nitroaniline	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW4d	Azobenzene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW4d	Bis(2-chloroethoxy)methane	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW4d	Bis(2-chloroethyl)ether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	Carbazole	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW4d	Dibenzofuran	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW4d	Hexachlorobenzene	GC-MS	Annually	<1***	ug/l	0.03
16/08/2017	GW4d	Hexachlorobutadiene	GC-MS	Annually	<1***	ug/l	0.1
16/08/2017	GW4d	Hexachlorocyclopentadiene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	Hexachloroethane	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	Isophorone	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW4d	N-nitrosodi-n-propylamine	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW4d	Nitrobenzene	GC-MS	Annually	<1***	ug/l	10
16/08/2017	GW4d	Dichlorodifluoromethane	Headspace GC-MS	Annually	<2***	ug/l	-
16/08/2017	GW4d	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually	<0.1***	ug/l	30
16/08/2017	GW4d	Chloromethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW4d	Vinyl Chloride	Headspace GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	Bromomethane	Headspace GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW4d	Chloroethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW4d	Trichlorofluoromethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW4d	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW4d	Dichloromethane (DCM)	Headspace GC-MS	Annually	<3***	ug/l	10
16/08/2017	GW4d	trans-1-2-Dichloroethene	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW4d	1,1-Dichloroethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW4d	cis-1-2-Dichloroethene	Headspace GC-MS	Annually	<3***	ug/l	-

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16/08/2017	GW4d	2,2-Dichloropropane	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW4d	Bromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Chloroform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	1,1,1-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l		500	
16/08/2017	GW4d	1,1-Dichloropropene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	Carbon tetrachloride	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	1,2-Dichloroethane	Headspace GC-MS	Annually		<2***	ug/l		3	
16/08/2017	GW4d	Benzene	Headspace GC-MS	Annually		<0.5***	ug/l		1	
16/08/2017	GW4d	Trichloroethene (TCE)	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	1,2-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Dibromomethane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	Bromodichloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Toluene	Headspace GC-MS	Annually		<5***	ug/l		10	
16/08/2017	GW4d	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	1,1,2-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		<3***	ug/l		40	
16/08/2017	GW4d	1,3-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Dibromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	1,2-Dibromoethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Chlorobenzene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW4d	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Ethylbenzene	Headspace GC-MS	Annually		<1***	ug/l		10	
16/08/2017	GW4d	p/m-Xylene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	o-Xylene	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW4d	Styrene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Bromoform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	Isopropylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		

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16/08/2017	GW4d	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		<4***	ug/l	-		
16/08/2017	GW4d	Bromobenzene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	1,2,3-Trichloropropane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	Propylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	2-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	4-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	tert-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	sec-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	4-Isopropyltoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	1,3-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	1,4-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	n-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	1,2-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW4d	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l		0.4	
16/08/2017	GW4d	Hexachlorobutadiene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4d	Naphthalene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW4d	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW4s	Cyanide	Flow Injection Analyser	Annually		dry	mg/l	0.0375		
16/08/2017	GW4s	Flouride	Ion Selective Electrode	Annually		dry	mg/l	1		
16/08/2017	GW4s	Mercury	ICP-OES	Annually		dry	ug/l	0.75		
16/08/2017	GW4s	Sulphate	Photometric Analysis	Annually		dry	mg/l	187.5		
16/08/2017	GW4s	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		dry	mg/l	No Change		
16/08/2017	GW4s	Ortho-Phosphate	Photometric Analysis	Annually		dry	mg/l	0.035		
16/08/2017	GW4s	TON	Photometric Analysis	Annually		dry	mg/l		No abnormal change	
16/08/2017	GW4s	Residue on Evaporation	Gravimetric	Annually		dry	mg/l		1000	

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16/08/2017	GW4s	Boron (B)	ICP-OES	Annually	dry	ug/l	750		
16/08/2017	GW4s	Total Chromium (Cr)	ICP-OES	Annually	dry	ug/l	37.5		
16/08/2017	GW4s	Cadmium (Cd)	ICP-OES	Annually	dry	ug/l	3.75		
16/08/2017	GW4s	Calcium (Ca)	ICP-OES	Annually	dry	mg/l		200	
16/08/2017	GW4s	Copper (Cu)	ICP-OES	Annually	dry	ug/l	1.5		
16/08/2017	GW4s	Iron (Fe)	ICP-OES	Annually	dry	mg/l	1		
16/08/2017	GW4s	Lead (Pb)	ICP-OES	Annually	dry	ug/l	18.75		
16/08/2017	GW4s	Magnesium (Mg)	ICP-OES	Annually	dry	mg/l	50		
16/08/2017	GW4s	Manganese (Mn)	ICP-OES	Annually	dry	ug/l	50		
16/08/2017	GW4s	Nickel (Ni)	ICP-OES	Annually	dry	ug/l	20		
16/08/2017	GW4s	Potassium (K)	ICP-OES	Annually	dry	mg/l	5		
16/08/2017	GW4s	Sodium (Na)	ICP-OES	Annually	dry	mg/l	150		
16/08/2017	GW4s	Zinc (Zn)	ICP-OES	Annually	dry	ug/l	100		
16/08/2017	GW4s	2-Chlorophenol	GC-MS	Annually	dry	ug/l		200	
16/08/2017	GW4s	2-Methylphenol	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2-Nitrophenol	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2,4-Dichlorophenol	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2,4-Dimethylphenol	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2,4,5-Trichlorophenol	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2,4,6-Trichlorophenol	GC-MS	Annually	dry	ug/l		200	
16/08/2017	GW4s	4-Chloro-3-methylphenol	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	4-Methylphenol	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	4-Nitrophenol	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Pentachlorophenol	GC-MS	Annually	dry	ug/l		2	
16/08/2017	GW4s	Phenol	GC-MS	Annually	dry	ug/l		0.5	
16/08/2017	GW4s	2-Chloronaphthalene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2-Methylnaphthalene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Naphthalene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Acenaphthylene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Acenaphthene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Fluorene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Phenanthrene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Anthracene	GC-MS	Annually	dry	ug/l		10000	
16/08/2017	GW4s	Fluoranthene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Pyrene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Benzo(a)anthracene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Chrysene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Benzo(bk)fluoranthene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Benzo(a)pyrene	GC-MS	Annually	dry	ug/l		0.01	
16/08/2017	GW4s	Indeno(123cd)pyrene	GC-MS	Annually	dry	ug/l		0.05	
16/08/2017	GW4s	Dibenzo(ah)anthracene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Benzo(ghi)perylene	GC-MS	Annually	dry	ug/l		0.05	
16/08/2017	GW4s	Bis(2-ethylhexyl) phthalate	GC-MS	Annually	dry	ug/l		5	
16/08/2017	GW4s	Butylbenzyl phthalate	GC-MS	Annually	dry	ug/l		5	
16/08/2017	GW4s	Di-n-butyl phthalate	GC-MS	Annually	dry	ug/l		2	
16/08/2017	GW4s	Di-n-Octyl phthalate	GC-MS	Annually	dry	ug/l		5	
16/08/2017	GW4s	Diethyl phthalate	GC-MS	Annually	dry	ug/l		5	
16/08/2017	GW4s	Dimethyl phthalate	GC-MS	Annually	dry	ug/l		5	
16/08/2017	GW4s	1,2-Dichlorobenzene	GC-MS	Annually	dry	ug/l		10	
16/08/2017	GW4s	1,2,4-Trichlorobenzene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	1,3-Dichlorobenzene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	1,4-Dichlorobenzene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2-Nitroaniline	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2,4-Dinitrotoluene	GC-MS	Annually	dry	ug/l	-		

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16/08/2017	GW4s	2,6-Dinitrotoluene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	3-Nitroaniline	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	4-Bromophenylphenylether	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	4-Chloroaniline	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	4-Chlorophenylphenylether	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	4-Nitroaniline	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Azobenzene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Bis(2-chloroethoxy)methane	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Bis(2-chloroethyl)ether	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Carbazole	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Dibenzofuran	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Hexachlorobenzene	GC-MS	Annually	dry	ug/l		0.03	
16/08/2017	GW4s	Hexachlorobutadiene	GC-MS	Annually	dry	ug/l		0.1	
16/08/2017	GW4s	Hexachlorocyclopentadiene	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Hexachloroethane	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Isophorone	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	N-nitrosodi-n-propylamine	GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Nitrobenzene	GC-MS	Annually	dry	ug/l		10	
16/08/2017	GW4s	Dichlorodifluoromethane	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually	dry	ug/l		30	
16/08/2017	GW4s	Chloromethane	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Vinyl Chloride	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Bromomethane	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Chloroethane	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Trichlorofluoromethane	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Dichloromethane (DCM)	Headspace GC-MS	Annually	dry	ug/l		10	
16/08/2017	GW4s	trans-1-2-Dichloroethene	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	1,1-Dichloroethane	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	cis-1-2-Dichloroethene	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	2,2-Dichloropropane	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Bromochloromethane	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Chloroform	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	1,1,1-Trichloroethane	Headspace GC-MS	Annually	dry	ug/l		500	
16/08/2017	GW4s	1,1-Dichloropropene	Headspace GC-MS	Annually	dry	ug/l	-		
16/08/2017	GW4s	Carbon tetrachloride	Headspace GC-MS	Annually	dry	ug/l	-		

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16/08/2017	GW4s	1,2-Dichloroethane	Headspace GC-MS	Annually		dry	ug/l		3
16/08/2017	GW4s	Benzene	Headspace GC-MS	Annually		dry	ug/l		1
16/08/2017	GW4s	Trichloroethene (TCE)	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,2-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Dibromomethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Bromodichloromethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Toluene	Headspace GC-MS	Annually		dry	ug/l		10
16/08/2017	GW4s	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,1,2-Trichloroethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		dry	ug/l		40
16/08/2017	GW4s	1,3-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Dibromochloromethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,2-Dibromoethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Chlorobenzene	Headspace GC-MS	Annually		dry	ug/l		1
16/08/2017	GW4s	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Ethylbenzene	Headspace GC-MS	Annually		dry	ug/l		10
16/08/2017	GW4s	p/m-Xylene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	o-Xylene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Styrene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Bromoform	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Isopropylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Bromobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,2,3-Trichloropropane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Propylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	2-Chlorotoluene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017		
16/08/2017	GW4s	4-Chlorotoluene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	tert-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	sec-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	4-Isopropyltoluene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,3-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,4-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	n-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,2-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		dry	ug/l		0.4
16/08/2017	GW4s	Hexachlorobutadiene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW4s	Naphthalene	Headspace GC-MS	Annually		dry	ug/l		1
16/08/2017	GW4s	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-	
16/08/2017	GW5d	Cyanide	Flow Injection Analyser	Annually		<0.01***	mg/l	0.0375	
16/08/2017	GW5d	Flouride	Ion Selective Electrode	Annually		<0.3***	mg/l	1	
16/08/2017	GW5d	Mercury	ICP-OES	Annually		<1***	ug/l	0.75	
16/08/2017	GW5d	Sulphate	Photometric Analysis	Annually		<0.5***	mg/l	187.5	
16/08/2017	GW5d	Total Alkalinity	Metrohm Automated Titration Analyser	Annually		516	mg/l	No Change	
16/08/2017	GW5d	Ortho-Phosphate	Photometric Analysis	Annually		<0.06***	mg/l	0.035	
16/08/2017	GW5d	TON	Photometric Analysis	Annually		<0.2***	mg/l		No abnormal change
16/08/2017	GW5d	Residue on Evaporation	Gravimetric	Annually		2637	mg/l		1000
16/08/2017	GW5d	Boron (B)	ICP-OES	Annually		<12***	ug/l	750	
16/08/2017	GW5d	Total Chromium (Cr)	ICP-OES	Annually		<1.5***	ug/l	37.5	
16/08/2017	GW5d	Cadmium (Cd)	ICP-OES	Annually		<0.5***	ug/l	3.75	
16/08/2017	GW5d	Calcium (Ca)	ICP-OES	Annually		279.9	mg/l		200
16/08/2017	GW5d	Copper (Cu)	ICP-OES	Annually		<7***	ug/l	1.5	
16/08/2017	GW5d	Iron (Fe)	ICP-OES	Annually		82940	mg/l	1	
16/08/2017	GW5d	Lead (Pb)	ICP-OES	Annually		<5***	ug/l	18.75	
16/08/2017	GW5d	Magnesium (Mg)	ICP-OES	Annually		22	mg/l	50	
16/08/2017	GW5d	Manganese (Mn)	ICP-OES	Annually		2591	ug/l	50	
16/08/2017	GW5d	Nickel (Ni)	ICP-OES	Annually		4	ug/l	20	
16/08/2017	GW5d	Potassium (K)	ICP-OES	Annually		4.4	mg/l	5	

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16/08/2017	GW5d	Sodium (Na)	ICP-OES	Annually	107.8	mg/l	150
16/08/2017	GW5d	Zinc (Zn)	ICP-OES	Annually	22	ug/l	100
16/08/2017	GW5d	2-Chlorophenol	GC-MS	Annually	<1***	ug/l	200
16/08/2017	GW5d	2-Methylphenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	2-Nitrophenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	2,4-Dichlorophenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	2,4-Dimethylphenol	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	2,4,5-Trichlorophenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	2,4,6-Trichlorophenol	GC-MS	Annually	<1***	ug/l	200
16/08/2017	GW5d	4-Chloro-3-methylphenol	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	4-Methylphenol	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	4-Nitrophenol	GC-MS	Annually	<10***	ug/l	-
16/08/2017	GW5d	Pentachlorophenol	GC-MS	Annually	<1***	ug/l	2
16/08/2017	GW5d	Phenol	GC-MS	Annually	<1***	ug/l	0.5
16/08/2017	GW5d	2-Chloronaphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	2-Methylnaphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Naphthalene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Acenaphthylene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Acenaphthene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Fluorene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Phenanthrene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Anthracene	GC-MS	Annually	<0.5***	ug/l	10000
16/08/2017	GW5d	Fluoranthene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Pyrene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Benzo(a)anthracene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Chrysene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Benzo(bk)fluoranthene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Benzo(a)pyrene	GC-MS	Annually	<1***	ug/l	0.01
16/08/2017	GW5d	Indeno(123cd)pyrene	GC-MS	Annually	<1***	ug/l	0.05
16/08/2017	GW5d	Dibenzo(ah)anthracene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Benzo(ghi)perylene	GC-MS	Annually	<0.5***	ug/l	0.05
16/08/2017	GW5d	Bis(2-ethylhexyl) phthalate	GC-MS	Annually	<5***	ug/l	5
16/08/2017	GW5d	Butylbenzyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW5d	Di-n-butyl phthalate	GC-MS	Annually	<1.5***	ug/l	2
16/08/2017	GW5d	Di-n-Octyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW5d	Diethyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW5d	Dimethyl phthalate	GC-MS	Annually	<1***	ug/l	5
16/08/2017	GW5d	1,2-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	10
16/08/2017	GW5d	1,2,4-Trichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	1,3-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	1,4-Dichlorobenzene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	2-Nitroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	2,4-Dinitrotoluene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	2,6-Dinitrotoluene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	3-Nitroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	4-Bromophenylphenylether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	4-Chloroaniline	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	4-Chlorophenylphenylether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	4-Nitroaniline	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Azobenzene	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Bis(2-chloroethoxy)methane	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Bis(2-chloroethyl)ether	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Carbazole	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Dibenzofuran	GC-MS	Annually	<0.5***	ug/l	-

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16/08/2017	GW5d	Hexachlorobenzene	GC-MS	Annually	<1***	ug/l	0.03
16/08/2017	GW5d	Hexachlorobutadiene	GC-MS	Annually	<1***	ug/l	0.1
16/08/2017	GW5d	Hexachlorocyclopentadiene	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Hexachloroethane	GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Isophorone	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	N-nitrosodi-n-propylamine	GC-MS	Annually	<0.5***	ug/l	-
16/08/2017	GW5d	Nitrobenzene	GC-MS	Annually	<1***	ug/l	10
16/08/2017	GW5d	Dichlorodifluoromethane	Headspace GC-MS	Annually	<2***	ug/l	-
16/08/2017	GW5d	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually	0.2	ug/l	30
16/08/2017	GW5d	Chloromethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	Vinyl Chloride	Headspace GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Bromomethane	Headspace GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Chloroethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	Trichlorofluoromethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	Dichloromethane (DCM)	Headspace GC-MS	Annually	<3***	ug/l	10
16/08/2017	GW5d	trans-1-2-Dichloroethene	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	1,1-Dichloroethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	cis-1-2-Dichloroethene	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	2,2-Dichloropropane	Headspace GC-MS	Annually	<1***	ug/l	-
16/08/2017	GW5d	Bromochloromethane	Headspace GC-MS	Annually	<2***	ug/l	-
16/08/2017	GW5d	Chloroform	Headspace GC-MS	Annually	<2***	ug/l	-
16/08/2017	GW5d	1,1,1-Trichloroethane	Headspace GC-MS	Annually	<2***	ug/l	500
16/08/2017	GW5d	1,1-Dichloropropene	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	Carbon tetrachloride	Headspace GC-MS	Annually	<2***	ug/l	-
16/08/2017	GW5d	1,2-Dichloroethane	Headspace GC-MS	Annually	<2***	ug/l	3
16/08/2017	GW5d	Benzene	Headspace GC-MS	Annually	<0.5***	ug/l	1
16/08/2017	GW5d	Trichloroethene (TCE)	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	1,2-Dichloropropane	Headspace GC-MS	Annually	<2***	ug/l	-
16/08/2017	GW5d	Dibromomethane	Headspace GC-MS	Annually	<3***	ug/l	-
16/08/2017	GW5d	Bromodichloromethane	Headspace GC-MS	Annually	<2***	ug/l	-

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017			
16/08/2017	GW5d	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	Toluene	Headspace GC-MS	Annually		6	ug/l		10	
16/08/2017	GW5d	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	1,1,2-Trichloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		<3***	ug/l		40	
16/08/2017	GW5d	1,3-Dichloropropane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	Dibromochloromethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	1,2-Dibromoethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	Chlorobenzene	Headspace GC-MS	Annually		<2***	ug/l		1	
16/08/2017	GW5d	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	Ethylbenzene	Headspace GC-MS	Annually		<1***	ug/l		10	
16/08/2017	GW5d	p/m-Xylene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	o-Xylene	Headspace GC-MS	Annually		<1***	ug/l	-		
16/08/2017	GW5d	Styrene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	Bromoform	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	Isopropylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		<4***	ug/l	-		
16/08/2017	GW5d	Bromobenzene	Headspace GC-MS	Annually		<2***	ug/l	-		
16/08/2017	GW5d	1,2,3-Trichloropropane	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	Propylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	2-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	4-Chlorotoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	tert-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	sec-Butylbenzene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	4-Isopropyltoluene	Headspace GC-MS	Annually		<3***	ug/l	-		
16/08/2017	GW5d	1,3-Dichlorobenzene	Headspace GC-MS	Annually		<3***	ug/l	-		

Groundwater/Soil monitoring template			Lic No: W0076-01		Year		2017	
16/08/2017	GW5d	1,4-Dichlorobenzene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW5d	n-Butylbenzene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW5d	1,2-Dichlorobenzene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW5d	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually	<2***	ug/l	-	
16/08/2017	GW5d	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually	<3***	ug/l		0.4
16/08/2017	GW5d	Hexachlorobutadiene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW5d	Naphthalene	Headspace GC-MS	Annually	<2***	ug/l		1
16/08/2017	GW5d	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually	<3***	ug/l	-	
16/08/2017	GW5s	Cyanide	Flow Injection Analyser	Annually	dry	mg/l	0.0375	
16/08/2017	GW5s	Flouride	Ion Selective Electrode	Annually	dry	mg/l	1	
16/08/2017	GW5s	Mercury	ICP-OES	Annually		ug/l	0.75	
16/08/2017	GW5s	Sulphate	Photometric Analysis	Annually	dry	mg/l	187.5	
16/08/2017	GW5s	Total Alkalinity	Metrohm Automated Titration Analyser	Annually	dry	mg/l	No Change	
16/08/2017	GW5s	Ortho-Phosphate	Photometric Analysis	Annually	dry	mg/l	0.035	
16/08/2017	GW5s	TON	Photometric Analysis	Annually	dry	mg/l		No abnormal change
16/08/2017	GW5s	Residue on Evaporation	Gravimetric	Annually	dry	mg/l		1000
16/08/2017	GW5s	Boron (B)	ICP-OES	Annually	dry	ug/l	750	
16/08/2017	GW5s	Total Chromium (Cr)	ICP-OES	Annually	dry	ug/l	37.5	
16/08/2017	GW5s	Cadmium (Cd)	ICP-OES	Annually	dry	ug/l	3.75	
16/08/2017	GW5s	Calcium (Ca)	ICP-OES	Annually	dry	mg/l		200
16/08/2017	GW5s	Copper (Cu)	ICP-OES	Annually	dry	ug/l	1.5	
16/08/2017	GW5s	Iron (Fe)	ICP-OES	Annually	dry	mg/l	1	
16/08/2017	GW5s	Lead (Pb)	ICP-OES	Annually	dry	ug/l	18.75	
16/08/2017	GW5s	Magnesium (Mg)	ICP-OES	Annually	dry	mg/l	50	
16/08/2017	GW5s	Manganese (Mn)	ICP-OES	Annually	dry	ug/l	50	
16/08/2017	GW5s	Nickel (Ni)	ICP-OES	Annually	dry	ug/l	20	
16/08/2017	GW5s	Potassium (K)	ICP-OES	Annually	dry	mg/l	5	
16/08/2017	GW5s	Sodium (Na)	ICP-OES	Annually	dry	mg/l	150	
16/08/2017	GW5s	Zinc (Zn)	ICP-OES	Annually	dry	ug/l	100	
16/08/2017	GW5s	2-Chlorophenol	GC-MS	Annually	dry	ug/l		200
16/08/2017	GW5s	2-Methylphenol	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW5s	2-Nitrophenol	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW5s	2,4-Dichlorophenol	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW5s	2,4-Dimethylphenol	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW5s	2,4,5-Trichlorophenol	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW5s	2,4,6-Trichlorophenol	GC-MS	Annually	dry	ug/l		200
16/08/2017	GW5s	4-Chloro-3-methylphenol	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW5s	4-Methylphenol	GC-MS	Annually	dry	ug/l	-	
16/08/2017	GW5s	4-Nitrophenol	GC-MS	Annually	dry	ug/l	-	

Groundwater/Soil monitoring template			Lic No:	W0076-01	Year	2017	
16/08/2017	GW5s	Pentachlorophenol	GC-MS	Annually	dry	ug/l	2
16/08/2017	GW5s	Phenol	GC-MS	Annually	dry	ug/l	0.5
16/08/2017	GW5s	2-Chloronaphthalene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	2-Methylnaphthalene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Naphthalene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Acenaphthylene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Acenaphthene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Fluorene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Phenanthrene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Anthracene	GC-MS	Annually	dry	ug/l	10000
16/08/2017	GW5s	Fluoranthene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Pyrene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Benzo(a)anthracene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Chrysene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Benzo(bk)fluoranthene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Benzo(a)pyrene	GC-MS	Annually	dry	ug/l	0.01
16/08/2017	GW5s	Indeno(123cd)pyrene	GC-MS	Annually	dry	ug/l	0.05
16/08/2017	GW5s	Dibenzo(ah)anthracene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Benzo(ghi)perylene	GC-MS	Annually	dry	ug/l	0.05
16/08/2017	GW5s	Bis(2-ethylhexyl) phthalate	GC-MS	Annually	dry	ug/l	5
16/08/2017	GW5s	Butylbenzyl phthalate	GC-MS	Annually	dry	ug/l	5
16/08/2017	GW5s	Di-n-butyl phthalate	GC-MS	Annually	dry	ug/l	2
16/08/2017	GW5s	Di-n-Octyl phthalate	GC-MS	Annually	dry	ug/l	5
16/08/2017	GW5s	Diethyl phthalate	GC-MS	Annually	dry	ug/l	5
16/08/2017	GW5s	Dimethyl phthalate	GC-MS	Annually	dry	ug/l	5
16/08/2017	GW5s	1,2-Dichlorobenzene	GC-MS	Annually	dry	ug/l	10
16/08/2017	GW5s	1,2,4-Trichlorobenzene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	1,3-Dichlorobenzene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	1,4-Dichlorobenzene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	2-Nitroaniline	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	2,4-Dinitrotoluene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	2,6-Dinitrotoluene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	3-Nitroaniline	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	4-Bromophenylphenylether	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	4-Chloroaniline	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	4-Chlorophenylphenylether	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	4-Nitroaniline	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Azobenzene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Bis(2-chloroethoxy)methane	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Bis(2-chloroethyl)ether	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Carbazole	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Dibenzofuran	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Hexachlorobenzene	GC-MS	Annually	dry	ug/l	0.03
16/08/2017	GW5s	Hexachlorobutadiene	GC-MS	Annually	dry	ug/l	0.1
16/08/2017	GW5s	Hexachlorocyclopentadiene	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Hexachloroethane	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Isophorone	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	N-nitrosodi-n-propylamine	GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Nitrobenzene	GC-MS	Annually	dry	ug/l	10
16/08/2017	GW5s	Dichlorodifluoromethane	Headspace GC-MS	Annually	dry	ug/l	-
16/08/2017	GW5s	Methyl Tertiary Butyl Ether	Headspace GC-MS	Annually	dry	ug/l	30

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017			
16/08/2017	GW5s	Chloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Vinyl Chloride	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Bromomethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Chloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Trichlorofluoromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,1-Dichloroethene (1,1 DCE)	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Dichloromethane (DCM)	Headspace GC-MS	Annually		dry	ug/l		10	
16/08/2017	GW5s	trans-1-2-Dichloroethene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,1-Dichloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	cis-1-2-Dichloroethene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	2,2-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Bromochloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Chloroform	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,1,1-Trichloroethane	Headspace GC-MS	Annually		dry	ug/l		500	
16/08/2017	GW5s	1,1-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Carbon tetrachloride	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,2-Dichloroethane	Headspace GC-MS	Annually		dry	ug/l		3	
16/08/2017	GW5s	Benzene	Headspace GC-MS	Annually		dry	ug/l		1	
16/08/2017	GW5s	Trichloroethene (TCE)	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,2-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Dibromomethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Bromodichloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	cis-1-3-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Toluene	Headspace GC-MS	Annually		dry	ug/l		10	
16/08/2017	GW5s	trans-1-3-Dichloropropene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,1,2-Trichloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Tetrachloroethene (PCE)	Headspace GC-MS	Annually		dry	ug/l		40	
16/08/2017	GW5s	1,3-Dichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		

Groundwater/Soil monitoring template				Lic No:	W0076-01	Year	2017			
16/08/2017	GW5s	Dibromochloromethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,2-Dibromoethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Chlorobenzene	Headspace GC-MS	Annually		dry	ug/l		1	
16/08/2017	GW5s	1,1,1,2-Tetrachloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Ethylbenzene	Headspace GC-MS	Annually		dry	ug/l		10	
16/08/2017	GW5s	p/m-Xylene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	o-Xylene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Styrene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Bromoform	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Isopropylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,1,2,2-Tetrachloroethane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Bromobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,2,3-Trichloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	Propylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	2-Chlorotoluene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,3,5-Trimethylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	4-Chlorotoluene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	tert-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,2,4-Trimethylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	sec-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	4-Isopropyltoluene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,3-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,4-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	n-Butylbenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,2-Dichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,2-Dibromo-3-chloropropane	Headspace GC-MS	Annually		dry	ug/l	-		
16/08/2017	GW5s	1,2,4-Trichlorobenzene	Headspace GC-MS	Annually		dry	ug/l		0.4	
16/08/2017	GW5s	Hexachlorobutadiene	Headspace GC-MS	Annually		dry	ug/l	-		

Groundwater/Soil monitoring template Lic No: W0076-01 Year 2017

16/08/2017	GW5s	Naphthalene	Headspace GC-MS	Annually		dry	ug/l		1	
16/08/2017	GW5s	1,2,3-Trichlorobenzene	Headspace GC-MS	Annually		dry	ug/l	-		

*** - Result less than the laboratory Limit of Detection

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

assessment tools is available in the EPA published guidance (see the link in G31) [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#).

**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), if the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS) [Surface water EQS](#) [Groundwater regulations](#) [Drinking water \(private supply\) GTV's standards](#)

Table 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:

W0076-01

Year

2017

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary	
1	ELRA initial agreement status	SELECT	not required
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:	W0076-01	Year	2017
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Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Management System (EMS) for the site. If yes, please detail in additional information	Yes	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	No	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Groundwater protection	Completed in 2017	100	Leachate pumps on site were repaired	Limerick County Council	Increased compliance with licence conditions
Groundwater protection	Began in 2017 - continuous	ongoing	Ammonia concentrations in all groundwater wells are now monitored monthly	Limerick County Council	Improved Environmental Management Practices
Surface water protection	Began in 2017 - continuous	ongoing	Ammonia concentrations in 3 surface water locations (WS3, WS4 and WS5 are now monitored monthly	Limerick County Council	Improved Environmental Management Practices

Noise monitoring summary report	Lic No: W0076-01	Year	2017
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1 Was noise monitoring a licence requirement for the AER period?

If yes please fill in table N1 noise summary below

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise Guidance note NG4](#)

3 Does your site have a noise reduction plan

4 When was the noise reduction plan last updated?

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT

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

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

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

Resource Usage/Energy efficiency summary

Lic No:

W0076-01

Year

2017

Additional information

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Enter date of audit	
No	
No	

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

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

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

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

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

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

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

Resource Usage/Energy efficiency summary Lic No: W0076-01 Year 2017

Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

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

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

Complaints and Incidents summary template		Lic No:	W0076-01	Year	2017
% reduction/ increase	100%				

WASTE SUMMARY	Lic No: W0076-01	Year: 2017
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list click to see options

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

- Additional Information
- 1 Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be captured through PRTR reporting)
If yes please enter details in table 1 below
- 2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information
- 3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

No	
No	
No	

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

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	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 -
	European Waste Catalogue EWC codes										

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

- 4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite
- 5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site
- 6 Does your facility have relevant nuisance controls in place?
- 7 Do you have an odour management system in place for your facility? If no why?
- 8 Do you maintain a sludge register on site?

N/A	
N/A	
N/A	
No	Closed landfill/no material brought onto site
No	

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
N/A	N/A	N/A	N/A	Closed landfill

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										SELECT UNIT	SELECT UNIT	SELECT UNIT
	1978	Mar-98	No	Public	Non Hazardous	closed landfill	No	No	No			

WASTE SUMMARY	Lic No:	W0076-01	Year	2017
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
Yes	Yes	Yes	Yes	Yes	Yes	No		Closed landfill

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

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m ² ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
0	0	18,600			synthetic liner	N/A

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

SELECT

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

SELECT

Volume of leachate in reporting year(m ³)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH ₄) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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 m ³	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
118,759 methane			No	

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2017
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1. FACILITY IDENTIFICATION

Parent Company Name	Limerick City & County Council
Facility Name	Longpavement landfill site
PRTR Identification Number	W0076
Licence Number	W0076-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Monabraher
Address 2	
Address 3	
Address 4	
Country	Limerick
Country	Ireland
Coordinates of Location	-8.6335 52.6832
River Basin District	IEGBNISH
NACE Code	3900
Main Economic Activity	Remediation activities and other waste management services
AER Returns Contact Name	JOHN O CARROLL
AER Returns Contact Email Address	john.ocarroll@limerick.ie
AER Returns Contact Position	Executive Scientist
AER Returns Contact Telephone Number	069 82355
AER Returns Contact Mobile Phone Number	0877565449
AER Returns Contact Fax Number	069 82350
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	1
User Feedback/Comments	Plus/minus 50 % variation in carbon dioxide emissions from previous year due to a calculation error in previous returns. 2016 value reported should have been 795,557 kgs/year.
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
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This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0076 | Facility Name : Longpavement landfill site | Filename : W0076_2017 PRTR.xls | Return Year : 2017 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	Total estimated methane generated minus methane flared	319652.0	319652.0	0.0	0.0
03	Carbon dioxide (CO2)	C	OTH		735156.0	735156.0	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	ALT	EN14792-2006	31.26	31.26	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
02	Carbon monoxide (CO)	M	ALT	EN15058-2006	3.24	3.24	0.0	0.0
11	Sulphur oxides (SOx/SO2)	M	CRM	TGN21	11.36	11.36	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)

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

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

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 the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
		Method Code	Designation or Description	
Total estimated methane generation (as per site model)	401351.0	E	Landgem	N/A
Methane flared	81699.0	M	Landfill Gas Survey	150.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	319652.0	C	OTH	N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0076 | Facility Name : Longpavement landfill site | Filename : W0076_2017 PRTR.xls | Return Year : 2017 |

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Please enter all quantities on this sheet in Tonnes

3

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Non	Haz Waste : Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						Haz Waste : Name and Licence/Permit No of Recover/Disposer	Non Haz Waste : Address of Recover/Disposer						
Within the Country	19 07 03	No	116.4	landfill leachate other than those mentioned in 19 07 02	D8	C	Volume Calculation	Offsite in Ireland	Limerick City Council ,D0013:	01	Bunlickey Waste Water Treatment Plant,,Limerick,,Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

[Link to Waste Guidance](#)

Please enter details below then click the OK button

Name of Recoverer / Disposer / Next Destination Facility	
Licence / Permit No. of Recoverer / Disposer / Next Destination Facility	
Address of Recoverer / Disposer / Next Destination Facility	
Address 1 / Street name	
Address 2 / Building number	
Address 3 / City name	
Address 4 / Postcode	
Country	

Please enter a full stop "." in an address field if there is no data to be entered

Alternatively, please select from previously entered details by clicking on the row below then click OK

Name and License / Permit No.	Address of Recoverer / Disposer / Broker
Limerick City Council ,D0013-01	Bunlickey Waste Water Treatment Plant,,Limerick,,Ireland

Previous years data is correct as at 31/01/2018 07:46

Release_To	Year	Pollutant_Number	Pollutant_Description	M_C_E	Method_Code	Method_Description	Total
Air	2016	1	Methane (CH4)	C	OTH	US EPA Land Gem	411019
Air	2016	3	Carbon dioxide (CO2)	C	OTH	US EPA Land Gem	161129
Air	2016	900	Total estimated methane generation	C	OTH	US EPA Land Gem	411019.2
Air	2016	901	Methane flared	C	OTH	enclosed flare	79707
Air	2016	903	Net methane emission	C	OTH	US EPA Land Gem	331312.2

Previous years data is correct as at 31/01/2018 07:46

Year	Destination	EWC	Hazardous	Total	Description	TreatmentOperation	M_C_E
2016	Within the Country	19 07 03	N	182	landfill leachate other than those mentioned in 19 07 02	D8	C

MethodCode	TreatmentLocation	Name_Licence_Permit_No	Address
Volume Calculation	Offsite in Ireland	Limerick City Council ,D0013-01	Bunlickey Waste Water Treatment Plant,,Limerick,,Ireland

Final_Recoverer_Disposer Actual_Address_Final_Destination

Previous years data is correct as at 31/01/2018 07:46

Type of Waste	Previous Year Total	Current Year Total	Percentage Change
Hazardous Waste inside the country for disposal	0	0	0
Hazardous Waste inside the country for recovery	0	0	0
Hazardous Waste outside the country for disposal	0	0	0
Hazardous Waste outside the country for recovery	0	0	0
Non-Hazardous Waste for disposal	182	116.4	-36.04395604
Non-Hazardous Waste for recovery	0	0	0