Facility Information Summary	
AER Reporting Year	2017
Licence Register Number	W0055-02
Name of site	SRCL Ltd.
Site Location	420-430 Beech Road, Western Industrial Estate, Dublin 12.
NACE Code	3821
Class/Classes of Activity	Treatment and disposal of non-hazardous waste
National Grid Reference (6E, 6 N)	-6.362653322

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence** listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.	The activities carried out at the facility involve the treatment of healthcare and related waste through shredding and disinfection. There was no significant change in production during the reporting period when compared to the previous year. There were two non-compliances issued in the EPA Audit on 21.04.2017; failure to submit Bund Report as per Licence requirements and failure to increase efficacy monitoring (spore strips) following reported failure. There were two self reported incidents in 2017, 7/7/17 breach of ELV for VOC at one monitoring location and on 7/3/17 there was a failure reported regarding the external analysis of spore strips. Additionally there was an exceedance of the ELV for VOC at one monitoring location during EPA monitoring competed on 27/2/17.

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.

Elaine Casey	06/04/2018
Signature	Date
Group/Facility manager (or nominated, suitably qualified and experienced deputy)	

AIR-summary template Lic No: W0055-02 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		Yes	
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 therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments -reason for change in % mass load from previous year if applicable
A2.1	Volumetric flow	Bi-annual	700	100 % of values < ELV	294	m3/hr	SELECT	EN ISO 16911-1	n/a	
A2.1	Total VOCs	Bi-annual	0.1	100 % of values < ELV	0.0175	kg/hour	SELECT	EN 12619:2013	106.26	
A2.2	Volumetric flow	Bi-annual	500	100 % of values < ELV	235.5	m3/hr	SELECT	EN ISO 16911-1	n/a	
A2.2	Total VOCs	Bi-annual	0.1	100 % of values < ELV	0.0405	kg/hour	SELECT	EN 12619:2013	245.916	
A2.3	Volumetric flow	Bi-annual	700	100 % of values < ELV	240.66	m3/hr	SELECT	EN ISO 16911-1	n/a	
A2.3	Total VOCs	Bi-annual	0.1	100 % of values < ELV	0.06733	kg/hour	SELECT	EN 12619:2013	408.848	One test im 2018, result of 0.161
A2.1	TVC	Bi-annual	2000	100 % of values < ELV	285	cfu/m3	yes	Air Sampler, ISO21527-1 2008	n/a	
A2.1	Fungal Spores	Bi-annual	2000	100 % of values < ELV	695	cfu/m3	yes	Air Sampler, ISO21527-1 2008	n/a	
A2.2	TVC	Bi-annual	2000	100 % of values < ELV	117.5	cfu/m3	yes	Air Sampler, ISO21527-1 2008	n/a	
A2.2	Fungal Spores	Bi-annual	2000	100 % of values < ELV	860	cfu/m3	yes	Air Sampler, ISO21527-1 2008	n/a	
A2.3	TVC	Bi-annual	2000	100 % of values < ELV	165	cfu/m3	yes	Air Sampler, ISO21527-1 2008	n/a	
A2.3	Fungal Spores	Bi-annual	2000	100 % of values < ELV	875	cfu/m3	yes	Air Sampler, ISO21527-1 2008	n/a	
A2.5	TVC	Bi-annual	2000	100 % of values < ELV	470	cfu/m3	yes	Air Sampler, ISO21527-1 2008	n/a	
A2.5	Fungal Spores	Bi-annual	2000	100 % of values < ELV	892.5	cfu/m3	yes	Air Sampler, ISO21527-1 2008	n/a	

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

AIR-summary template	Lic No:	W0055-02	Year	2017

Continuous Monitoring

4	Does your site carry out continuous air emissions monitoring?	No	
	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	SELECT	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT	
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	SELECT	

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

Table A3: Abatement system bypass reporting table

Bypass protocol

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

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

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

AIR-summary template Lic No: W0055-02 Year 2017

Solvent use and management on site

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

SELECT

Table A4: Solvent Management Plan Summary
Total VOC Emission limit value

Solvent regulations — Please refer to linked solvent regulations to complete table 5 and 6

Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance
					SELECT
					SELECT

Table A5: Solvent Mass Balance summary

	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite	Total emission of Solvent to air (kg)
							Total	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0055-02 Year 2017

			Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections	Yes	Licensed emissions direct to sewer
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections	Yes	Daily visual examination carried out. Drain typically dry, no contamination observed.

Table W1 Storm water monitoring

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

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

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof[Note 2]	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
SE-1	Wastewater/Sewer	volumetric flow	composite	Monthly	Annual	20	All values < 1.2 x ELV	17.23	m3/day	yes	INSTRUMENTAL METHODS	Water Meter	Manufacturer method	5393772.50	
SE-1	Wastewater/Sewer	pH	composite	Monthly	Annual	6.0 - 10.0	No pH value shall deviate from the specified range.	7.62	pH units	yes	pH Meter (Electrode)	pH Meter	Manufacturer method	N/A	
SE-1	Wastewater/Sewer	Temperature	composite	Monthly	Annual	42	Not exceed	20.56	degrees C	yes	Temp prob	Temp Prob	Manufacturer method	N/A	
SE-1	Wastewater/Sewer	BOD	composite	Monthly	Annual	1000	All values < 1.2 x ELV	455.83	mg/L	yes	Dissolved Oxygen Meter	APHA/AWWA "Standard Methods"	MEWAM 1988 APHA 52104 500C 2005	2458.66	
SE-1	Wastewater/Sewer	COD	composite	Monthly	Annual	3000	All values < 1.2 x ELV	838.58	mg/L	yes	Titration	APHA/AWWA "Standard Methods"	MEWAM 1988 APHA 5520D 2005	4523.13	
SE-1	Wastewater/Sewer	Suspended Solids	composite	Monthly	Annual	500	All values < 1.2 x ELV	43.83	mg/L	yes	Gravimetric Analysis"	APHA/AWWA "Standard Methods"	MEWAM 1980 APHA 25400	236.43	
SE-1	Wastewater/Sewer	Detergents (as MBAS)	composite	Monthly	Annual	100	All values < 1.2 x ELV	<0.20	mg/L	yes	Hach kit	Hach Kit De-2	Hach Kit De-2	<0.20	
SE-1	Wastewater/Sewer	Fats, Oils and Greases	composite	Monthly	Annual	100	All values < 1.2 x ELV	5.55	mg/L	yes	Gravimetric Analysis"	APHA 5520D, 2005	APHA 5520D, 2005	29.94	
SE-1	Wastewater/Sewer	Total Coliforms	composite	Monthly	Annual	None	None	8.3	CFU/100ml	yes	ISO 4832:2006	ISO 4832:2006	ISO 4832:2006	N/A	
SE-1	Wastewater/Sewer	Faecal Coliforms	composite	Monthly	Annual	None	None	0	CFU/100ml	yes	ISO 16649-201	ISO 16649-201	ISO 16649-201	N/A	
SE-1	Wastewater/Sewer	Entercocci	composite	Monthly	Annual	None	None	0.33	CFU/100ml	yes	Selective Medium	P160	P160	N/A	
SE-1	Wastewater/Sewer	Pseudomonas aeruginosa	composite	Monthly	Annual	None	None	4378.33	CFU/100ml	yes	Selective Medium	ISO 16266:2006	ISO 16266:2006	N/A	
SE-1	Wastewater/Sewer	Staphyloccus aureus	composite	Monthly	Annual	None	None	0	CFU/100ml	yes	Selective Medium	ISO6888-1:1999	ISO6888-1:1999	N/A	

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

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0055-02 Year 2017

Continuous monitoring

			Additional Information
5	Does your site carry out continuous emissions to water/sewer monitoring?	Yes	pH and Temperature
	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**	No	
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	No	
8	Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below**	No	

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 (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
SE-1	Wastewater/Sewer	pH	06-Oct	Monthly	No pH value shall deviate from the .specified range	pH units	All results within range	0	0	0	
SE-1	Wastewater/Sewer	Temperature	<42	Monthly	No temperature value shall exceed the limit .value	degrees C	All results within range	0	0	0	

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/Pipeline testing template

Lic No: W0055-02 Year 2017

Bund testing

dropdown menu click to see options

			Additional information
1	Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)	Yes	
2	Please provide integrity testing frequency period	3 years	
3	Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)	Yes	
4	How many bunds are on site?	8	
5	How many of these bunds have been tested within the required test schedule?	8	
6	How many mobile bunds are on site?	8	
7	Are the mobile bunds included in the bund test schedule?	Yes	
8	How many of these mobile bunds have been tested within the required test schedule?	8	
9	How many sumps on site are included in the integrity test schedule?	0	
10	How many of these sumps are integrity tested within the test schedule?		
	Please list any sump integrity failures in table B1		
11	Do all sumps and chambers have high level liquid alarms?	SELECT	
12	If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	SELECT	
13	Is the Fire Water Retention Pond included in your integrity test programme?	SELECT	

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
13475	prefabricated	Moulded	Drummed liquids	250l	220l (110%)	Other (please specify)	Hydrostatic	02/03/2017	Yes	Pass		SELECT	01/03/2020	
13476	prefabricated	Moulded	Drummed liquids	250l	220l (110%)	Other (please specify)	Hydrostatic	02/03/2017	Yes	Pass			01/03/2020	
13477	prefabricated	Moulded	Drummed liquids	250l	220l (110%)	Other (please specify)	Hydrostatic	02/03/2017	Yes	Pass			01/03/2020	
13478	prefabricated	Moulded	Drummed liquids	250l	220l (110%)	Other (please specify)	Hydrostatic	02/03/2017	Yes	Pass			01/03/2020	
13479	prefabricated	Moulded	Drummed liquids	250l	220l (110%)	Other (please specify)	Hydrostatic	02/03/2017	Yes	Pass			01/03/2020	
13480	prefabricated	Moulded	Drummed liquids	250l	220l (110%)	Other (please specify)	Hydrostatic	02/03/2017	Yes	Pass			01/03/2020	
13717	prefabricated	Steel welded	Liquids in cans/bottles	60l	30l (110%)	Other (please specify)	Hydrostatic	02/03/2017	Yes	Pass		SELECT	01/03/2020	

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

			Commentary
15	Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? bunding and storage guidelines	Yes	
16	Are channels/transfer systems to remote containment systems tested?	SELECT	
17	Are channels/transfer systems compliant in both integrity and available volume?	SELECT	

Pipeline/underground structure testing

1	Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**	Yes	
2	Please provide integrity testing frequency period	Other (please specify)	5 Years

*please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

Table B2: Summary details of pipeline/underground structures integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Foul Sewer	Foul	pvc	No	SELECT	Air	Yes	Pass			2020	SELECT
Surface water line	Storm	pvc	No		Air	Yes	Pass		Patch Test repair on line at one point, completed	2020	
Foul Sewer	Foul	pvc	No		CCTV	Yes	Pass			2020	
Surface water line	Storm	pvc	No		CCTV	Yes	Pass			2020	

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

Groundwater/Soil monitoring template	Lic No:	W0055-02	Year	2017

			Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	no		Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
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	no	N/A	
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A		
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	N/A		
7	Please specify the proposed time frame for the remediation strategy	N/A		
8	Is there a licence condition to carry out/update ELRA for the site?	yes		
9	Has any type of risk assesment been carried out for the site?	yes		
10	Has a Conceptual Site Model been developed for the site?	no		
11	Have potential receptors been identified on and off site?	yes		
12	Is there evidence that contamination is migrating offsite?	no		Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

.+ 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

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

Groundwater/Soil monitoring template	Lic No:	W0055-02	Year	2017

*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.	Groundwater monitoring template
More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)	Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).

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

Groundwater/Soil monitoring template	Lic No:	W0055-02	Year	2017

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:	W0055-02	Year	2017

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

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;	
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	178,861.80	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	265,889.00	
6	Financial Provision for ELRA - type	Other please specify	Parent Company Guarantee
7	Financial provision for ELRA expiry date	n/a	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	87,028	
12	Financial Provision for Closure - type	Other please specify	Parent Company Guarantee
13	Financial provision for Closure expiry date	n/a	

Environmental Management Programme/Continuous Improvement Programme template

Lic No: W0055-02 Year 2017

Highlighted cells contain dropdown menu click to view

			Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	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	Yes	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Energy Efficiency/Utility conservation	Reduce CO2 emissions by 5% from 2013 (tonnes CO2e per tonne waste handled).	100	Medwaste average CO2 emission per tonne handled was 124kg versus 137kg in 2016. A reduction of 9.4% year on year. Target Achieved	Section Head	Reduced emissions
Waste reduction/Raw material usage efficiency	Prevent disposal of single use containers through development of Biosystems service.	100	Use of Biosystems continued to increase. Total increase of 7685 containers	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Increase the fuel efficiency of our fleet by 5% per year from 2013 levels (mpg).	100	Average fuel economy changes 2016 to 2017: SRCL 12.2 increased to 13.3	Section Head	Reduced emissions
Waste reduction/Raw material usage efficiency	Achieve and maintain 95%+ recovery rate for AT flock.	100	100% flock recovery rate	Section Head	Improved Environmental Management Practices

Noise monitoring summary report	Lic No:	W0055-02	Year	2017

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

Table N1: Noise monitoring summary

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

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

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

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

Resource Usage/Energy efficiency summary	Lic No:	W0055-02	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	Enter date of audit	
2	Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information	SEAI - Large Industry Energy Network (LIEN) SELECT	
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	SELECT	

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)	476	500		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	476	500		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (m3)	186,234	221,020		
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usage on site

					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m^3yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	5277	7586			5394	2192	
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)	10859.79				10859.79
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: W0055-02 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: W0055-02 Year 2017

Complaints

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

Table 1 Complaints summary

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

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

Incidents

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

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

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurence
07/03/2017	Breach of ELV	Spore Strip failure Line 2	1. Minor	No Uncontrolled release	Plant or equipment issues		Normal activities	EPA	New	On-going monitoring as per Licence. Subsequent testing show no fails.	Sampling procedures will be observed by the Environmental Manager to confirm the samples are managed and submitted to the Lab in line with in house procedures.	Complete	25/05/2017	Low
01/08/20117	Breach of ELV	Licenced discharge point (A2-3)	1. Minor	Air	Inappropriate waste		Normal activities	EPA	New	Repeat monitoring completed on 15 August 2017. The results of this monitoring demonstrate compliance with the emission limit values for VOC as specified in the Plant's Licence, W0055-02.	Customers contacted on waste segregation requirements	Complete	24/08/2017	Low
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT

Total number of incidents current year	2
Total number of incidents previous year	2
% reduction/ increase	0

WASTE SUMMARY	Lic No:	W0055-02	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	Yes	
2	Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	No	
3	Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information	No	

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

Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted **Please enter an accurate and detailed description - which 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 -
15,000	*180103*	*18- WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)*	*healthcare risk waste for treatment*	*9695.57*	*9377.24*	3%	*commercial reasons*	*n/a*	*R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis*		
	180202	*18- WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)*	*healthcare risk waste for treatment (from animal healthcare*	*61.97*	*39.44*	60%	*commercial reasons*	*n/a*	*R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis*		

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	Yes	
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	Yes	
6	Does your facility have relevant nuisance controls in place?	No	closed lid containers, no odour complaints
7	Do you have an odour management system in place for your facility? If no why?	No	
8	Do you maintain a sludge register on site?	N/A	

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

WASTE SUMMARY			Lic No:	W0055-02	Year	2017

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8													

WASTE SUMMARY Lic No: W0055-02 Year 2017

Table 4 Environmental monitoring-landfill only

Landfill Manual-Monitoring Standards

Was meterological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments

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

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9	Is leachate from your site treated in a Waste Water Treatment Plant?	SELECT
10	Is leachate released to surface water? If yes please complete leachate mass load information below	SELECT

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

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

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

Environmental Protection Agency

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2017

1. FACILITY IDENTIFICATION

Parent Company Name	SRCL Limited
Facility Name	SRCL Limited
PRTR Identification Number	W0055
Licence Number	W0055-02

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	420-430 Beech Road
Address 2	Western Industrial Estate
Address 3	Naas Road
Address 4	Dublin 12
	Dublin
Country	Ireland
Coordinates of Location	-6.3626 53.3218
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Elaine Casey
AER Returns Contact Email Address	elaine.casey@srcl.com
AER Returns Contact Position	HSSE Manager
AER Returns Contact Telephone Number	01-4659125
AER Returns Contact Mobile Phone Number	0863459169
AER Returns Contact Fax Number	N/A
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	45
User Feedback/Comments	
Web Address	http://srcl.ie/

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(a)	Installations for the recovery or disposal of hazardous waste
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?	No
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) ?	Yes

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

RELEASES TO AIR					Please enter all quantities in this section in KGs					
POLLUTANT		METHOD						QUANTITY		
			Method Used							
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
237	Volatile organic compounds (as TOC)	M	ALT	EN12619	106.26	245.916	408.848	761.085	0.061	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:

Landfill: SRCL Limited

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	0.0				N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT						QUANTITY		
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	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

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
76	Total organic carbon (TOC) (as total C or COD/3)	M	ALT	HACH Method	1507.71	1507.71	0.0	0.0

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
303	BOD	M	ALT	Dissolved Oxygen Meter	2458.66	2458.66	0.0	0.0
306	COD	M	ALT	HACH Method	4523.13	4523.13	0.0	0.0
240	**Suspended Solids**	M	ALT	Gravimetric analysis	236.43	236.43	0.0	0.0
308	Detergents (as MBAS)	M	ALT	HACH Test Kit	0.0	0.0	0.0	0.0
314	Fats, Oils and Greases	M	ALT	Soxhlet Method	29.94	29.94	0.0	0.0

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

4.4 RELEASES TO LAND Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

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

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

0

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: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
To Other Countries	18 01 03	Yes	311.53	wastes whose collection and disposal is subject to special requirements in order to prevent infection	D15	M	Weighed	Abroad	Eco-safe Systems Ltd.,W0054-02	Unit 1A Allied Industrial Estate,Kylemore Road,Ballyfermot,Dublin 10,Ireland	SRCL Ltd,CP 393OX, , ,Leeds, ,United Kingdom	, ,Leeds, ,United Kingdom
Within the Country	19 02 03	No	380.62	premixed wastes composed only of non-hazardous wastes	R1	M	Weighed	Offsite in Ireland	Lagan Cement,P0487-05	Killaskillen Road,.,Kinegad,Co. Meath,Ireland		
Within the Country	19 02 03	No	3526.91	premixed wastes composed only of non-hazardous wastes	R1	M	Weighed	Offsite in Ireland	Indaver Ltd.,W0167-02	Carranstown,.,.,Co. Meath,Ireland		
Within the Country	19 02 03	No	3050.33	premixed wastes composed only of non-hazardous wastes	R1	M	Weighed	Offsite in Ireland	Greyhound Recycling and Recovery,Reg No. W0205-01	Crag Avenue,Clondalkin Industrial Estate,Clondalkin,Dublin 22,Ireland		
Within the Country	19 02 03	No	3590.4	premixed wastes composed only of non-hazardous wastes	R1	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd (t/a Panda),W0183-01	Millennium Business Park Material Recovery Facility,.,Grange,Co. Dublin ,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