

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period		Test Method	Sample Date and Times	Uncertainty
L1C/09	Methane (CH ₄)	No limit set	July	30.60	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	11.90		08/05/2020	
	Carbon Monoxide	No limit set	July	6.00	-	08/05/2020	
	Oxygen (O ₂)	No limit set	July	6.70		08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	-0.03		08/05/2020	
L1C/09	Methane (CH ₄)	No limit set	Aug	23.20	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	7.00		29/05/2020	
	Carbon Monoxide	No limit set	Aug	12.00	-	29/05/2020	
	Oxygen (O ₂)	No limit set	Aug	10.90	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	0.02		29/05/2020	
L1C/09	Methane (CH ₄)	No limit set	Sept	16.60	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept	3.90		27/09/2020	
	Carbon Monoxide	No limit set	Sept	9.00	-	27/09/2020	
	Oxygen (O ₂)	No limit set	Sept	14.30	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1011.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	-0.02		27/09/2020	
L3/09	Methane (CH ₄)	No limit set	July	Damaged	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July			08/05/2020	
	Carbon Monoxide	No limit set	July		-	08/05/2020	
	Oxygen (O ₂)	No limit set	July		-	08/05/2020	
	Barometric Pressure	No limit set	July		-	08/05/2020	
	Gas Pressure	No limit set	July			08/05/2020	
L3/09	Methane (CH ₄)	No limit set	Aug	Damaged	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug			29/05/2020	
	Carbon Monoxide	No limit set	Aug		-	29/05/2020	
	Oxygen (O ₂)	No limit set	Aug		-	29/05/2020	
	Barometric Pressure	No limit set	Aug		-	29/05/2020	
	Gas Pressure	No limit set	Aug			29/05/2020	
L3/09	Methane (CH ₄)	No limit set	Sept	Damaged	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept			27/09/2020	
	Carbon Monoxide	No limit set	Sept		-	27/09/2020	
	Oxygen (O ₂)	No limit set	Sept		-	27/09/2020	
	Barometric Pressure	No limit set	Sept		-	27/09/2020	
	Gas Pressure	No limit set	Sept			27/09/2020	
L6/09	Methane (CH ₄)	No limit set	July	20.40	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	10.20		08/05/2020	
	Carbon Monoxide	No limit set	July	28.00	-	08/05/2020	
	Oxygen (O ₂)	No limit set	July	0.80	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.00		08/05/2020	
L6/09	Methane (CH ₄)	No limit set	Aug	11.00	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	5.30		29/05/2020	
	Carbon Monoxide	No limit set	Aug	19.00	-	29/05/2020	
	Oxygen (O ₂)	No limit set	Aug	9.00	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	0.03		29/05/2020	
L6/09	Methane (CH ₄)	No limit set	Sept	0.00	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept	0.10		27/09/2020	
	Carbon Monoxide	No limit set	Sept	1.00	-	27/09/2020	
	Oxygen (O ₂)	No limit set	Sept	20.70	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1011.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	0.00		27/09/2020	
L9B/09	Methane (CH ₄)	No limit set	July	2.40	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	0.90		08/05/2020	
	Carbon Monoxide	No limit set	July	1.00	-	08/05/2020	
	Oxygen (O ₂)	No limit set	July	19.20	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.02		08/05/2020	
L9B/09	Methane (CH ₄)	No limit set	Aug	6.70	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	2.00		29/05/2020	
	Carbon Monoxide	No limit set	Aug	3.00	-	29/05/2020	
	Oxygen (O ₂)	No limit set	Aug	17.90	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	-0.05		29/05/2020	
	Methane (CH ₄)	No limit set	Sept	4.40	Portable infra-red analyser	27/09/2020	
	Carbon Dioxide (CO ₂)	No limit set	Sept	1.50		27/09/2020	

L9B/09	Carbon Monoxide	No limit set	Sept	2.00	-	27/09/2020	Accuracy of meter
	Oxygen (O2)	No limit set	Sept	18.90	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1011.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	-0.02		27/09/2020	
L11/09	Methane (CH ₄)	No limit set	July	69.00	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	7.90		08/05/2020	
	Carbon Monoxide	No limit set	July	27.00	-	08/05/2020	
	Oxygen (O2)	No limit set	July	0.40	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.03		08/05/2020	
L11/09	Methane (CH ₄)	No limit set	Aug	55.00	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	6.60		29/05/2020	
	Carbon Monoxide	No limit set	Aug	26.00	-	29/05/2020	
	Oxygen (O2)	No limit set	Aug	3.40	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	998.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	-0.03		29/05/2020	
L11/09	Methane (CH ₄)	No limit set	Sept	59.40	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept	7.40		27/09/2020	
	Carbon Monoxide	No limit set	Sept	17.00	-	27/09/2020	
	Oxygen (O2)	No limit set	Sept	3.00	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1011.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	0.05		27/09/2020	
L13/09	Methane (CH ₄)	No limit set	July	6.20	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	0.30		08/05/2020	
	Carbon Monoxide	No limit set	July	5.00	-	08/05/2020	
	Oxygen (O2)	No limit set	July	12.50	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.02		08/05/2020	
L13/09	Methane (CH ₄)	No limit set	Aug	5.80	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	0.20		29/05/2020	
	Carbon Monoxide	No limit set	Aug	8.00	-	29/05/2020	
	Oxygen (O2)	No limit set	Aug	12.00	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	-0.03		29/05/2020	
L13/09	Methane (CH ₄)	No limit set	Sept	Damaged	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept			27/09/2020	
	Carbon Monoxide	No limit set	Sept		-	27/09/2020	
	Oxygen (O2)	No limit set	Sept		-	27/09/2020	
	Barometric Pressure	No limit set	Sept		-	27/09/2020	
	Gas Pressure	No limit set	Sept			27/09/2020	
L14/09	Methane (CH ₄)	No limit set	July	0.10	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	0.50		08/05/2020	
	Carbon Monoxide	No limit set	July	1.00	-	08/05/2020	
	Oxygen (O2)	No limit set	July	19.50	-	08/05/2020	
	Barometric Pressure	No limit set	July	1016.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.09		08/05/2020	
L14/09	Methane (CH ₄)	No limit set	Aug	0.80	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	0.60		29/05/2020	
	Carbon Monoxide	No limit set	Aug	2.00	-	29/05/2020	
	Oxygen (O2)	No limit set	Aug	18.90	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	-0.12		29/05/2020	
L14/09	Methane (CH ₄)	No limit set	Sept	0.10	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept	0.80		27/09/2020	
	Carbon Monoxide	No limit set	Sept	1.00	-	27/09/2020	
	Oxygen (O2)	No limit set	Sept	19.40	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1012.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	0.02		27/09/2020	
L16/09	Methane (CH ₄)	No limit set	July	10.70	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	2.80		08/05/2020	
	Carbon Monoxide	No limit set	July	4.00	-	08/05/2020	
	Oxygen (O2)	No limit set	July	16.40	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	-0.02		08/05/2020	
L16/09	Methane (CH ₄)	No limit set	Aug	28.10	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	8.60		29/05/2020	
	Carbon Monoxide	No limit set	Aug	13.00	-	29/05/2020	
	Oxygen (O2)	No limit set	Aug	9.20	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	-0.02		29/05/2020	
	Methane (CH ₄)	No limit set	Sept	9.80	Portable infra-red analyser	27/09/2020	

L16/09	Carbon Dioxide (CO ₂)	No limit set	Sept	2.80		27/09/2020	Accuracy of meter
	Carbon Monoxide	No limit set	Sept	5.00	-	27/09/2020	
	Oxygen (O ₂)	No limit set	Sept	17.20	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1011.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	0.00		27/09/2020	
L19/09	Methane (CH ₄)	No limit set	July	5.90	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	0.20		08/05/2020	
	Carbon Monoxide	No limit set	July	3.00	-	08/05/2020	
	Oxygen (O ₂)	No limit set	July	15.20	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.07		08/05/2020	
L19/09	Methane (CH ₄)	No limit set	Aug	10.60	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	0.10		29/05/2020	
	Carbon Monoxide	No limit set	Aug	12.00	-	29/05/2020	
	Oxygen (O ₂)	No limit set	Aug	13.20	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	-0.09		29/05/2020	
L19/09	Methane (CH ₄)	No limit set	Sept	12.10	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept	0.20		27/09/2020	
	Carbon Monoxide	No limit set	Sept	5.00	-	27/09/2020	
	Oxygen (O ₂)	No limit set	Sept	11.40	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1011.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	0.03		27/09/2020	
L21/09	Methane (CH ₄)	No limit set	July	0.00	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	0.10		08/05/2020	
	Carbon Monoxide	No limit set	July	1.00	-	08/05/2020	
	Oxygen (O ₂)	No limit set	July	20.50	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.02		08/05/2020	
L21/09	Methane (CH ₄)	No limit set	Aug	11.50	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	5.80		29/05/2020	
	Carbon Monoxide	No limit set	Aug	2.00	-	29/05/2020	
	Oxygen (O ₂)	No limit set	Aug	15.10	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	-0.09		29/05/2020	
L21/09	Methane (CH ₄)	No limit set	Sept	12.40	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept	6.60		27/09/2020	
	Carbon Monoxide	No limit set	Sept	1.00	-	27/09/2020	
	Oxygen (O ₂)	No limit set	Sept	15.00	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1011.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	0.10		27/09/2020	
L23/09	Methane (CH ₄)	No limit set	July	3.10	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	0.60		08/05/2020	
	Carbon Monoxide	No limit set	July	1.00	-	08/05/2020	
	Oxygen (O ₂)	No limit set	July	18.40	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.00		08/05/2020	
L23/09	Methane (CH ₄)	No limit set	Aug	0.50	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	0.20		29/05/2020	
	Carbon Monoxide	No limit set	Aug	2.00	-	29/05/2020	
	Oxygen (O ₂)	No limit set	Aug	20.40	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	0.09		29/05/2020	
L23/09	Methane (CH ₄)	No limit set	Sept	23.90	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept	7.10		27/09/2020	
	Carbon Monoxide	No limit set	Sept	10.00	-	27/09/2020	
	Oxygen (O ₂)	No limit set	Sept	1.10	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1011.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	0.05		27/09/2020	
L26/09	Methane (CH ₄)	No limit set	July	19.20	Portable infra-red analyser	08/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	July	7.00		08/05/2020	
	Carbon Monoxide	No limit set	July	9.00	-	08/05/2020	
	Oxygen (O ₂)	No limit set	July	0.30	-	08/05/2020	
	Barometric Pressure	No limit set	July	1015.00	-	08/05/2020	
	Gas Pressure	No limit set	July	0.15		08/05/2020	
L26/09	Methane (CH ₄)	No limit set	Aug	22.10	Portable infra-red analyser	29/05/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Aug	6.90		29/05/2020	
	Carbon Monoxide	No limit set	Aug	15.00	-	29/05/2020	
	Oxygen (O ₂)	No limit set	Aug	1.20	-	29/05/2020	
	Barometric Pressure	No limit set	Aug	999.00	-	29/05/2020	
	Gas Pressure	No limit set	Aug	-0.02		29/05/2020	

L26/09	Methane (CH ₄)	No limit set	Sept	9.00	Portable infra-red analyser	27/09/2020	Accuracy of meter
	Carbon Dioxide (CO ₂)	No limit set	Sept	5.80		27/09/2020	
	Carbon Monoxide	No limit set	Sept	8.00	-	27/09/2020	
	Oxygen (O ₂)	No limit set	Sept	0.70	-	27/09/2020	
	Barometric Pressure	No limit set	Sept	1012.00	-	27/09/2020	
	Gas Pressure	No limit set	Sept	0.00		27/09/2020	

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...BETH JONES Date...28/10/2020..
 (Authorised to sign as representative of Operator)

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Ground Water 1 - 15 October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times ^[3]	Uncertainty [4]
CWMGW01 (SHALLOW)	Water Level	m	Spot sample	Borehole destroyed	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	Borehole destroyed	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW01 (SHALLOW)	Water Level	m	Spot sample	Borehole destroyed	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	Borehole destroyed	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW01 (SHALLOW)	Water Level	m	Spot sample	Borehole destroyed	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	Borehole destroyed	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...Beth Jones..... Date...29.10.2020.....
 (Authorised to sign as representative of Operator)

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Ground Water 1 - 15 October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMGW03 REPLACEMENT	Water Level	m	Spot sample	34.92	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Cadmium	0.075 mg/l	Spot sample				
	Nickel	2.6 mg/l	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
	Napthalene	0.062 mg/l	Spot sample				
	Pentachlorophenol	1 mg/l	Spot sample				
CWMGW03 REPLACEMENT	Water Level (mAOD)	m	Spot sample	35.03	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Cadmium	0.075 mg/l	Spot sample				
	Nickel	2.6 mg/l	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
	Napthalene	0.062 mg/l	Spot sample				
	Pentachlorophenol	1 mg/l	Spot sample				
CWMGW03 REPLACEMENT	Water Level (mAOD)		Spot sample	35.04	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	7.3			
	Electrical Conductivity	not set	Spot sample	399			
	Dissolved Oxygen	not set	Spot sample	3.9			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	11.6			

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[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...Beth Jones..... Date...29.10.2020.....
(Authorised to sign as representative of Operator)

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Ground Water 1 - 15 October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times ^[3]	Uncertainty [4]
CWMGW04 (REPLACEMENT)	Water Level	m	Spot sample	37.91	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW04 (REPLACEMENT)	Water Level	m	Spot sample	37.99	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW04 (REPLACEMENT)	Water Level	m	Spot sample	37.92	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	7.3			
	Electrical Conductivity	not set	Spot sample	459			
	Dissolved Oxygen	not set	Spot sample	3.7			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	29.6			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times ^[3]	Uncertainty [4]
CWMGW06A (SHALLOW)	Water Level	m	Spot sample	Borehole destroyed	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	Borehole destroyed	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW06A (SHALLOW)	Water Level	m	Spot sample	Borehole destroyed	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	Borehole destroyed	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW06A (SHALLOW)	Water Level	m	Spot sample	Borehole destroyed	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	Borehole destroyed	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times ^[3]	Uncertainty [4]	
CWMGW07A	Water Level	m	Spot sample	43.06	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	Borehole destroyed	Accuracy of testing equipment	
	pH	>6 , <9	Spot sample					
	Electrical Conductivity	not set	Spot sample					
	Dissolved Oxygen	not set	Spot sample					
	Ammoniacal Nitrogen	393 mg/l	Spot sample					
	Chloride	11900 mg/l	Spot sample					
CWMGW07A	Water Level	m	Spot sample	42.59	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment	
	pH	>6 , <9	Spot sample					
	Electrical Conductivity	not set	Spot sample					
	Dissolved Oxygen	not set	Spot sample					
	Ammoniacal Nitrogen	393 mg/l	Spot sample					
	Chloride	11900 mg/l	Spot sample					
CWMGW07A	Water Level	m	Spot sample	-	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment	
	pH	>6 , <9	Spot sample	Borehole blocked and unable to retrieve sample				
	Electrical Conductivity	not set	Spot sample					
	Dissolved Oxygen	not set	Spot sample					
	Ammoniacal Nitrogen	393 mg/l	Spot sample					
	Chloride	11900 mg/l	Spot sample					

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times ^[3]	Uncertainty [4]
CWMGW07B	Water Level	m	Spot sample	44.75	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW07B	Water Level	m	Spot sample	42.39	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW07B	Water Level	m	Spot sample	42.08	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	8			
	Electrical Conductivity	not set	Spot sample	437			
	Dissolved Oxygen	not set	Spot sample	3			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	17.8			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMGW08	Water Level	m	Spot sample	33.33	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW08	Water Level (mAOD)	m	Spot sample	33.58	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW08	Water Level (mAOD)	m	Spot sample	33.33	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	7.3			
	Electrical Conductivity	not set	Spot sample	457			
	Dissolved Oxygen	not set	Spot sample	1.1			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	13.1			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMGW09	Water Level	m	Spot sample	36.06	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW09	Water Level	m	Spot sample	36.32	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
CWMGW09	Water Level	m	Spot sample	36.28	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	7.1			
	Electrical Conductivity	not set	Spot sample	509			
	Dissolved Oxygen	not set	Spot sample	2.4			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	16.6			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
LFG2	Water Level	m	Spot sample	48.65	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
LFG2	Water Level (mAOD)	m	Spot sample	Borehole damaged	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
LFG2	Water Level (mAOD)	m	Spot sample	48.72	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	7.4			
	Electrical Conductivity	not set	Spot sample	542			
	Dissolved Oxygen	not set	Spot sample	1.7			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	10.9			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
LFG6	Water Level	m	Spot sample	Borehole damaged	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
LFG6	Water Level	m	Spot sample	53.96	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
LFG6	Water Level	m	Spot sample	53.85	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	6.7			
	Electrical Conductivity	not set	Spot sample	226			
	Dissolved Oxygen	not set	Spot sample	<0.5			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	15.3			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times ^[3]	Uncertainty [4]
LFG9	Water Level	m	Spot sample	36.85	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
LFG9	Water Level	m	Spot sample	36.44	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
LFG9	Water Level	m	Spot sample	36.28	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	6.7			
	Electrical Conductivity	not set	Spot sample	305			
	Dissolved Oxygen	not set	Spot sample	1.1			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	13.7			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times ^[3]	Uncertainty [4]
LFG12BG	Water Level	m	Spot sample	38.35	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
LFG12BG	Water Level	m	Spot sample	Borehole damaged	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
LFG12BG	Water Level	m	Spot sample	38.8	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	6.8			
	Electrical Conductivity	not set	Spot sample	267			
	Dissolved Oxygen	not set	Spot sample	7.3			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	17.2			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
GW10	Water Level	m	Spot sample	43.16	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
GW10	Water Level	m	Spot sample	42.68	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
GW10	Water Level	m	Spot sample	42.46	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	7.6			
	Electrical Conductivity	not set	Spot sample	516			
	Dissolved Oxygen	not set	Spot sample	2			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	17.5			

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...Beth Jones..... Date...29.10.2020.....
(Authorised to sign as representative of Operator)

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Ground Water 1 - 15 October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
GW11	Water Level	m	Spot sample	39.1	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
GW11	Water Level	m	Spot sample	38.97	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
GW11	Water Level	m	Spot sample	38.88	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	7.5			
	Electrical Conductivity	not set	Spot sample	620			
	Dissolved Oxygen	not set	Spot sample	5.1			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	23.9			

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[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

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Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Ground Water 1 - 15 October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
GW12	Water Level	m	Spot sample	35.03	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	31/07/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
GW12	Water Level	m	Spot sample	35.38	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	28/08/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample				
	Electrical Conductivity	not set	Spot sample				
	Dissolved Oxygen	not set	Spot sample				
	Ammoniacal Nitrogen	393 mg/l	Spot sample				
	Chloride	11900 mg/l	Spot sample				
GW12	Water Level	m	Spot sample	35.00	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	pH	>6 , <9	Spot sample	7.7			
	Electrical Conductivity	not set	Spot sample	459			
	Dissolved Oxygen	not set	Spot sample	2.5			
	Ammoniacal Nitrogen	393 mg/l	Spot sample	<0.41			
	Chloride	11900 mg/l	Spot sample	26.6			

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[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

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Form Number: Ground Water 1 - 15 October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMGW01B (Shallow)	Cadmium	n/a	Spot sample	Borehole destroyed		Borehole destroyed	Accuracy of testing equipment
	Calcium	n/a	Spot sample				
	Chromium	n/a	Spot sample				
	Copper	n/a	Spot sample				
	Iron	n/a	Spot sample				
	Lead	n/a	Spot sample				
	Magnesium	n/a	Spot sample				
	Manganese	n/a	Spot sample				
	Mercury	n/a	Spot sample				
	Nickel	n/a	Spot sample				
	Potassium	n/a	Spot sample				
	Sodium	n/a	Spot sample				
	Zinc	n/a	Spot sample				
	Alkalinity as CaCO ₃	n/a	Spot sample				
	Total Oxidised Nitrogen	n/a	Spot sample				
	Sulphate	n/a	Spot sample				
	Total Organic Carbon	n/a	Spot sample				
	Cyanide, Total as CN	n/a	Spot sample				
	Phenols Mono (Phenol Index)	n/a	Spot sample				
CWMGW03 (Replacement)	Cadmium	n/a	Spot sample	<0.0006		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0046			
	Copper	n/a	Spot sample	<0.009			
	Iron	n/a	Spot sample	52.7			
	Lead	n/a	Spot sample	0.0157			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	1.11			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.0088			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	0.0242			
	Alkalinity as CaCO ₃	n/a	Spot sample	179			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
CWMGW04 (Replacement)	Cadmium	n/a	Spot sample	0.0007		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0033			
	Copper	n/a	Spot sample	<0.009			
	Iron	n/a	Spot sample	22.4			
	Lead	n/a	Spot sample	0.0106			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	1.66			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.013			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	<0.018			
	Alkalinity as CaCO ₃	n/a	Spot sample	191			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
	Cyanide, Total as CN	n/a	Spot sample	n/a			
	Phenols Mono (Phenol Index)	n/a	Spot sample	n/a			

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Ground Water 1 - 15 October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMGW06A (Shallow)	Cadmium	n/a	Spot sample	Borehole destroyed		Borehole destroyed	Accuracy of testing equipment
	Calcium	n/a	Spot sample				
	Chromium	n/a	Spot sample				
	Copper	n/a	Spot sample				
	Iron	n/a	Spot sample				
	Lead	n/a	Spot sample				
	Magnesium	n/a	Spot sample				
	Manganese	n/a	Spot sample				
	Mercury	n/a	Spot sample				
	Nickel	n/a	Spot sample				
	Potassium	n/a	Spot sample				
	Sodium	n/a	Spot sample				
	Zinc	n/a	Spot sample				
	Alkalinity as CaCO3	n/a	Spot sample				
	Total Oxidised Nitrogen	n/a	Spot sample				
	Sulphate	n/a	Spot sample				
	Total Organic Carbon	n/a	Spot sample				
	Cyanide, Total as CN	n/a	Spot sample				
	Phenols Mono (Phenol Index)	n/a	Spot sample				
CWMGW07A	Cadmium	n/a	Spot sample	Borehole damaged		Borehole destroyed	Accuracy of testing equipment
	Calcium	n/a	Spot sample				
	Chromium	n/a	Spot sample				
	Copper	n/a	Spot sample				
	Iron	n/a	Spot sample				
	Lead	n/a	Spot sample				
	Magnesium	n/a	Spot sample				
	Manganese	n/a	Spot sample				
	Mercury	n/a	Spot sample				
	Nickel	n/a	Spot sample				
	Potassium	n/a	Spot sample				
	Sodium	n/a	Spot sample				
	Zinc	n/a	Spot sample				
	Alkalinity as CaCO3	n/a	Spot sample				
	Total Oxidised Nitrogen	n/a	Spot sample				
	Sulphate	n/a	Spot sample				
	Total Organic Carbon	n/a	Spot sample				
	Cyanide, Total as CN	n/a	Spot sample				
	Phenols Mono (Phenol Index)	n/a	Spot sample				
CWMGW07B	Cadmium	n/a	Spot sample	<0.0006		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0043			
	Copper	n/a	Spot sample	<0.009			
	Iron	n/a	Spot sample	2.5			
	Lead	n/a	Spot sample	0.0281			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	0.0928			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.005			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	<0.018			
	Alkalinity as CaCO3	n/a	Spot sample	59.6			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
	Cyanide, Total as CN	n/a	Spot sample	n/a			
	Phenols Mono (Phenol Index)	n/a	Spot sample	n/a			

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMGW08	Cadmium	n/a	Spot sample	<0.0006		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	<0.002			
	Copper	n/a	Spot sample	<0.009			
	Iron	n/a	Spot sample	12.4			
	Lead	n/a	Spot sample	0.0257			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	1.03			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.0111			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	0.0807			
	Alkalinity as CaCO3	n/a	Spot sample	218			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
CWMGW09	Cadmium	n/a	Spot sample	0.0008		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0052			
	Copper	n/a	Spot sample	0.0109			
	Iron	n/a	Spot sample	24			
	Lead	n/a	Spot sample	0.0154			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	0.397			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.0125			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	0.0225			
	Alkalinity as CaCO3	n/a	Spot sample	217			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
LFG2	Cadmium	n/a	Spot sample	0.014		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0156			
	Copper	n/a	Spot sample	0.401			
	Iron	n/a	Spot sample	31.1			
	Lead	n/a	Spot sample	0.024			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	1.03			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.0181			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	0.196			
	Alkalinity as CaCO3	n/a	Spot sample	252			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
	Cyanide, Total as CN	n/a	Spot sample	n/a			
	Phenols Mono (Phenol Index)	n/a	Spot sample	n/a			

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Operator: SI Green UK Limited

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Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
LFG6	Cadmium	n/a	Spot sample	0.0018		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0046			
	Copper	n/a	Spot sample	<0.009			
	Iron	n/a	Spot sample	95.4			
	Lead	n/a	Spot sample	0.0107			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	0.772			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.0229			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	0.0539			
	Alkalinity as CaCO3	n/a	Spot sample	89.2			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
LFG9	Cadmium	n/a	Spot sample	<0.0006		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0597			
	Copper	n/a	Spot sample	0.141			
	Iron	n/a	Spot sample	53.4			
	Lead	n/a	Spot sample	0.074			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	9.13			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.232			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	0.365			
	Alkalinity as CaCO3	n/a	Spot sample	125			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
LFG12BG	Cadmium	n/a	Spot sample	<0.0006		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0038			
	Copper	n/a	Spot sample	<0.009			
	Iron	n/a	Spot sample	7.7			
	Lead	n/a	Spot sample	<0.006			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	0.7			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.0114			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	<0.018			
	Alkalinity as CaCO3	n/a	Spot sample	80.4			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
	Cyanide, Total as CN	n/a	Spot sample	n/a			
	Phenols Mono (Phenol Index)	n/a	Spot sample	n/a			

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

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Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
GW10	Cadmium	n/a	Spot sample	<0.006		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0253			
	Copper	n/a	Spot sample	0.0194			
	Iron	n/a	Spot sample	43			
	Lead	n/a	Spot sample	0.0261			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	2.29			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.069			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	0.132			
	Alkalinity as CaCO3	n/a	Spot sample	232			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
GW11	Cadmium	n/a	Spot sample	<0.006		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0024			
	Copper	n/a	Spot sample	<0.009			
	Iron	n/a	Spot sample	3.5			
	Lead	n/a	Spot sample	<0.006			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	0.201			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.0068			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	<0.018			
	Alkalinity as CaCO3	n/a	Spot sample	251			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
GW12	Cadmium	n/a	Spot sample	0.0006		29/09/2020	Accuracy of testing equipment
	Calcium	n/a	Spot sample	n/a			
	Chromium	n/a	Spot sample	0.0031			
	Copper	n/a	Spot sample	<0.009			
	Iron	n/a	Spot sample	7.8			
	Lead	n/a	Spot sample	<0.006			
	Magnesium	n/a	Spot sample	n/a			
	Manganese	n/a	Spot sample	0.735			
	Mercury	n/a	Spot sample	n/a			
	Nickel	n/a	Spot sample	0.007			
	Potassium	n/a	Spot sample	n/a			
	Sodium	n/a	Spot sample	n/a			
	Zinc	n/a	Spot sample	<0.018			
	Alkalinity as CaCO3	n/a	Spot sample	205			
	Total Oxidised Nitrogen	n/a	Spot sample	n/a			
	Sulphate	n/a	Spot sample	n/a			
	Total Organic Carbon	n/a	Spot sample	n/a			
	Cyanide, Total as CN	n/a	Spot sample	n/a			
	Phenols Mono (Phenol Index)	n/a	Spot sample	n/a			

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Ground Water 1 - 15 October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
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[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...Beth Jones.....Date...29.10.2020.....

(Authorised to sign as representative of Operator)

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: LFG 1 - 15 October 2008

Reporting of leachate monitoring for the period from

01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
CWMLS01	pH	N/A	Mar-20	8.1	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	Electrical conductivity	N/A	Mar-20	889		29/09/2020	
	Chemical Oxygen Demand (COD)	N/A	Mar-20	37		29/09/2020	
	Ammonical Nitrogen	N/A	Mar-20	<0.41		29/09/2020	
	Chloride	N/A	Mar-20	95.6		29/09/2020	
	Sodium	N/A	Mar-20	25.6		29/09/2020	
	Potassium	N/A	Mar-20	12		29/09/2020	
	Total organic carbon	N/A	Mar-20	6.7		29/09/2020	
	Alkalinity as Ca CO ₃	N/A	Mar-20	192		29/09/2020	
	Calcium	N/A	Mar-20	145		29/09/2020	
	Sulphate	N/A	Mar-20	151		29/09/2020	
	Total oxidised Nitrogen (TON)	N/A	Mar-20	<0.7		29/09/2020	

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
L9B/09	pH	N/A	Mar-20	7.3	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
	Electrical conductivity	N/A	Mar-20	7950		29/09/2020	
	Chemical Oxygen Demand (COD)	N/A	Mar-20	1650		29/09/2020	
	Ammonical Nitrogen	N/A	Mar-20	365		29/09/2020	
	Chloride	N/A	Mar-20	1750		29/09/2020	
	Sodium	N/A	Mar-20	620		29/09/2020	
	Potassium	N/A	Mar-20	249		29/09/2020	
	Total organic carbon	N/A	Mar-20	205		29/09/2020	
	Alkalinity as Ca CO ₃	N/A	Mar-20	1680		29/09/2020	
	Calcium	N/A	Mar-20	99.3		29/09/2020	
	Sulphate	N/A	Mar-20	<4.4		29/09/2020	
	Total oxidised Nitrogen (TON)	N/A	Mar-20	<0.7		29/09/2020	

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Date.....29.10.2020.....

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: LFG 1 - 15 October 2008

Reporting of leachate monitoring for the period from

01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result	Test Method	Sample Date and Times	Uncertainty
L1C	Leachate Level	no limit for existing waste	Jan	1.24	Dip meter	31/07/2020	
			Feb	1.35	Dip meter	28/08/2020	
			Mar	1.33	Dip meter	28/09/2020	
L3	Leachate Level	no limit for existing waste	Jan	Borehole damaged	Dip meter	Borehole damaged	
			Feb		Dip meter		
			Mar		Dip meter		
L6	Leachate Level	no limit for existing waste	Jan	3.00	Dip meter	31/07/2020	
			Feb	3.37	Dip meter	28/08/2020	
			Mar	3.09	Dip meter	28/09/2020	
L9B	Leachate Level	no limit for existing waste	Jan	1.30	Dip meter	31/07/2020	
			Feb	2.09	Dip meter	28/08/2020	
			Mar	1.70	Dip meter	28/09/2020	
L11	Leachate Level	no limit for existing waste	Jan	4.15	Dip meter	31/07/2020	
			Feb	4.40	Dip meter	28/08/2020	
			Mar	4.40	Dip meter	28/09/2020	
L13	Leachate Level	no limit for existing waste	Jan	0.60	Dip meter	31/07/2020	
			Feb	0.62	Dip meter	28/08/2020	
			Mar	0.60	Dip meter	28/09/2020	
L14	Leachate Level	no limit for existing waste	Jan	0.20	Dip meter	31/07/2020	
			Feb	0.22	Dip meter	28/08/2020	
			Mar	0.20	Dip meter	28/09/2020	
L16	Leachate Level	no limit for existing waste	Jan	2.62	Dip meter	31/07/2020	
			Feb	2.61	Dip meter	28/08/2020	
			Dec	1.88	Dip meter	28/09/2020	
L19	Leachate Level	no limit for existing waste	Jan	0.10	Dip meter	31/07/2020	
			Feb	0.15	Dip meter	28/08/2020	
			Mar	0.10	Dip meter	28/09/2020	
L21	Leachate Level	no limit for existing waste	Jan	8.30	Dip meter	31/07/2020	
			Feb	8.52	Dip meter	28/08/2020	
			Mar	8.50	Dip meter	28/09/2020	
L23	Leachate Level	no limit for existing waste	Jan	0.00	Dip meter	31/07/2020	
			Feb	0.00	Dip meter	28/08/2020	
			Mar	0.00	Dip meter	28/09/2020	
L26	Leachate Level	no limit for existing waste	Jan	0.10	Dip meter	31/07/2020	
			Feb	0.15	Dip meter	28/08/2020	
			Mar	0.08	Dip meter	28/09/2020	
CWMLSO1	Leachate Level	no limit for existing waste	Jan	1.90	Dip meter	31/07/2020	
			Feb	1.99	Dip meter	28/08/2020	
			Mar	1.80	Dip meter	28/09/2020	

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Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Water 1 -15th October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMS01	Suspended Solids	40 mg/litre	Spot Sample	10.00	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
CWMS01	pH	>6 and <9 pH units	Spot Sample	8	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
CWMS01	Ammoniacal Nitrogen	1 mg/litre	Spot Sample	<0.41	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
CWMS01	Chloride	100 mg/litre	Spot Sample	30.2	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
CWMS01	Electrical Conductivity		Spot Sample	272	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
CWMS01	Dissolved Oxygen		Spot Sample	9.1	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
CWMS01	BOD+ATU (5Day)		Spot Sample	<1	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment
CWMS01	COD (total)		Spot Sample	12	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/09/2020	Accuracy of testing equipment

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Form Number: Water 1 -15th October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value/Unit	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMS02	Suspended Solids	40 mg/litre	Spot Sample	10	Methods used shall be in accordance with Agency	29/09/2020	Accuracy of testing equipment
CWMS02	pH	>6 and <9 pH units	Spot Sample	7.6	Methods used shall be in accordance with Agency	29/09/2020	Accuracy of testing equipment
CWMS02	Ammoniacal Nitrogen	1 mg/litre	Spot Sample	<0.41	Methods used shall be in accordance with Agency	29/09/2020	Accuracy of testing equipment
CWMS02	Chloride	100 mg/litre	Spot Sample	54.8	Methods used shall be in accordance with Agency	29/09/2020	Accuracy of testing equipment
CWMS02	Electrical Conductivity		Spot Sample	612	Methods used shall be in accordance with Agency	29/09/2020	Accuracy of testing equipment
CWMS02	Dissolved Oxygen		Spot Sample	3	Methods used shall be in accordance with Agency	29/09/2020	Accuracy of testing equipment
CWMS02	BOD+ATU (5Day)		Spot Sample	2	Methods used shall be in accordance with Agency	29/09/2020	Accuracy of testing equipment
CWMS02	COD (total)		Spot Sample	12	Methods used shall be in accordance with Agency	29/09/2020	Accuracy of testing equipment
CWMS02	Water Level	m	Spot Sample	32	Methods used shall be in accordance with Agency	31/07/2020	Accuracy of testing equipment
CWMS02	Discharge volume	m ³	Spot Sample	11,081	Methods used shall be in accordance with Agency	28/08/2020	Accuracy of testing equipment
CWMS02	Flow Rate	m ³ /hr	Spot Sample	14.22	Methods used shall be in accordance with Agency	24/07/2020	Accuracy of testing equipment
				13.19		28/08/2020	
				11.68		25/09/2020	

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Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Sample Date and Times ^[3]	Uncertainty ^[4]
CWMS03A	Suspended Solids	40 mg/litre	Spot Sample			Accuracy of testing equipment
				2	29/09/2020	
CWMS03A	pH	>6 and <9 pH units	Spot Sample			Accuracy of testing equipment
				8.1	29/09/2020	
CWMS03A	Ammoniacal Nitrogen	1 mg/litre	Spot Sample			Accuracy of testing equipment
				<0.41	29/09/2020	
CWMS03A	Chloride	100 mg/litre	Spot Sample			Accuracy of testing equipment
				28.4	29/09/2020	
CWMS03A	Electrical Conductivity		Spot Sample			Accuracy of testing equipment
				260	29/09/2020	
CWMS03A	Dissolved Oxygen		Spot Sample			Accuracy of testing equipment
				8	29/09/2020	
CWMS03A	BOD+ATU (5Day)		Spot Sample			Accuracy of testing equipment
				2	29/09/2020	
CWMS03A	COD (total)		Spot Sample			Accuracy of testing equipment
				<11.0	29/09/2020	

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Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Sample Date and Times ^[3]	Uncertainty ^[4]
CWMS03B	Suspended Solids	40 mg/litre	Spot Sample			Accuracy of testing equipment
				1	29/09/2020	
CWMS03B	pH	>6 and <9 pH units	Spot Sample			Accuracy of testing equipment
				8.2	29/09/2020	
CWMS03B	Ammoniacal Nitrogen	1 mg/litre	Spot Sample			Accuracy of testing equipment
				<0.41	29/09/2020	
CWMS03B	Chloride	100 mg/litre	Spot Sample			Accuracy of testing equipment
				27.4	29/09/2020	
CWMS03B	Electrical Conductivity		Spot Sample			Accuracy of testing equipment
				268	29/09/2020	
CWMS03B	Dissolved Oxygen		Spot Sample			Accuracy of testing equipment
				9.1	29/09/2020	
CWMS03B	BOD+ATU (5Day)		Spot Sample			Accuracy of testing equipment
				<1	29/09/2020	
CWMS03B	COD (total)		Spot Sample			Accuracy of testing equipment
				14	29/09/2020	

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Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Sample Date and Times ^[3]	Uncertainty ^[4]
CWMS05	Suspended Solids	40 mg/litre	Spot Sample			Accuracy of testing equipment
				2	29/09/2020	
CWMS05	pH	>6 and <9 pH units	Spot Sample			Accuracy of testing equipment
				7.9	29/09/2020	
CWMS05	Ammoniacal Nitrogen	1 mg/litre	Spot Sample			Accuracy of testing equipment
				<0.41	29/09/2020	
CWMS05	Chloride	100 mg/litre	Spot Sample			Accuracy of testing equipment
				13.2	29/09/2020	
CWMS05	Electrical Conductivity		Spot Sample			Accuracy of testing equipment
				266	29/09/2020	
CWMS05	Dissolved Oxygen		Spot Sample			Accuracy of testing equipment
				6.4	29/09/2020	
CWMS05	BOD+ATU (5Day)		Spot Sample			Accuracy of testing equipment
				<1	29/09/2020	
CWMS05	COD (total)		Spot Sample			Accuracy of testing equipment
				16	29/09/2020	

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Installation: Cwmrhydyceirw Quarry

Form Number: Water 1 -15th October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
CWMS01	Cadmium	mg/l	Quarterly	n/a			
	Calcium	mg/l	Quarterly	n/a			
	Chromium	mg/l	Quarterly	n/a			
	Copper	mg/l	Quarterly	n/a			
	Iron	mg/l	Quarterly	n/a			
	Lead	mg/l	Quarterly	n/a			
	Magnesium	mg/l	Quarterly	n/a			
	Manganese	mg/l	Quarterly	n/a			
	Mercury	mg/l	Quarterly	n/a			
	Nickel	mg/l	Quarterly	n/a			
	Potassium	mg/l	Quarterly	n/a			
	Sodium	mg/l	Quarterly	n/a			
	Zinc	mg/l	Quarterly	n/a			
	Alkalinity as CaCO ₃	mg/l	Quarterly	n/a			
	TON as N	mg/l	Quarterly	n/a			
	Sulphate	mg/l	Quarterly	n/a			
	TOC as C	mg/l	Quarterly	n/a			
	Cyanide, Total as CN	mg/l	Quarterly	n/a			
	Phenols Mono	mg/l	Quarterly	n/a			
	TPH >C6-C40	mg/l	Quarterly	n/a			
	TPH >C6-C8	mg/l	Quarterly	n/a			
	TPH> C8-C10	mg/l	Quarterly	n/a			
	TPH> C16-C24	mg/l	Quarterly	n/a			
	TPH> C24-C40	mg/l	Quarterly	n/a			
	TPH> C10-C16	mg/l	Quarterly	n/a			

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Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
CWMS02	Cadmium	mg/l	Quarterly	n/a			
	Calcium	mg/l	Quarterly	n/a			
	Chromium	mg/l	Quarterly	n/a			
	Copper	mg/l	Quarterly	n/a			
	Iron	mg/l	Quarterly	n/a			
	Lead	mg/l	Quarterly	n/a			
	Magnesium	mg/l	Quarterly	n/a			
	Manganese	mg/l	Quarterly	n/a			
	Mercury	mg/l	Quarterly	n/a			
	Nickel	mg/l	Quarterly	n/a			
	Potassium	mg/l	Quarterly	n/a			
	Sodium	mg/l	Quarterly	n/a			
	Zinc	mg/l	Quarterly	n/a			
	Alkalinity as CaCO ₃	mg/l	Quarterly	n/a			
	TON as N	mg/l	Quarterly	n/a			
	Sulphate	mg/l	Quarterly	n/a			
	TOC as C	mg/l	Quarterly	n/a			
	Cyanide, Total as CN	mg/l	Quarterly	n/a			
	Phenols Mono	mg/l	Quarterly	n/a			
	TPH >C6-C40	mg/l	Quarterly	n/a			
	TPH >C6-C8	mg/l	Quarterly	n/a			
	TPH> C8-C10	mg/l	Quarterly	n/a			
	TPH> C16-C24	mg/l	Quarterly	n/a			
	TPH> C24-C40	mg/l	Quarterly	n/a			
	TPH> C10-C16	mg/l	Quarterly	n/a			

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Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
CWMS03A	Cadmium	mg/l	Quarterly	n/a			
	Calcium	mg/l	Quarterly	n/a			
	Chromium	mg/l	Quarterly	n/a			
	Copper	mg/l	Quarterly	n/a			
	Iron	mg/l	Quarterly	n/a			
	Lead	mg/l	Quarterly	n/a			
	Magnesium	mg/l	Quarterly	n/a			
	Manganese	mg/l	Quarterly	n/a			
	Mercury	mg/l	Quarterly	n/a			
	Nickel	mg/l	Quarterly	n/a			
	Potassium	mg/l	Quarterly	n/a			
	Sodium	mg/l	Quarterly	n/a			
	Zinc	mg/l	Quarterly	n/a			
	Alkalinity as CaCO ₃	mg/l	Quarterly	n/a			
	TON as N	mg/l	Quarterly	n/a			
	Sulphate	mg/l	Quarterly	n/a			
	TOC as C	mg/l	Quarterly	n/a			
	Cyanide, Total as CN	mg/l	Quarterly	n/a			
	Phenols Mono	mg/l	Quarterly	n/a			
	TPH >C6-C40	mg/l	Quarterly	n/a			
	TPH >C6-C8	mg/l	Quarterly	n/a			
	TPH> C8-C10	mg/l	Quarterly	n/a			
	TPH> C16-C24	mg/l	Quarterly	n/a			
	TPH> C24-C40	mg/l	Quarterly	n/a			
	TPH> C10-C16	mg/l	Quarterly	n/a			

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...Beth Jones.....Date.....29/10/2020.....

(Authorised to sign as representative of Operator)

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Water 1 -15th October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
CWMS03B	Cadmium	mg/l	Quarterly	n/a			
	Calcium	mg/l	Quarterly	n/a			
	Chromium	mg/l	Quarterly	n/a			
	Copper	mg/l	Quarterly	n/a			
	Iron	mg/l	Quarterly	n/a			
	Lead	mg/l	Quarterly	n/a			
	Magnesium	mg/l	Quarterly	n/a			
	Manganese	mg/l	Quarterly	n/a			
	Mercury	mg/l	Quarterly	n/a			
	Nickel	mg/l	Quarterly	n/a			
	Potassium	mg/l	Quarterly	n/a			
	Sodium	mg/l	Quarterly	n/a			
	Zinc	mg/l	Quarterly	n/a			
	Alkalinity as CaCO ₃	mg/l	Quarterly	n/a			
	TON as N	mg/l	Quarterly	n/a			
	Sulphate	mg/l	Quarterly	n/a			
	TOC as C	mg/l	Quarterly	n/a			
	Cyanide, Total as CN	mg/l	Quarterly	n/a			
	Phenols Mono	mg/l	Quarterly	n/a			
	TPH >C6-C40	mg/l	Quarterly	n/a			
	TPH >C6-C8	mg/l	Quarterly	n/a			
	TPH> C8-C10	mg/l	Quarterly	n/a			
	TPH> C16-C24	mg/l	Quarterly	n/a			
	TPH> C24-C40	mg/l	Quarterly	n/a			
	TPH> C10-C16	mg/l	Quarterly	n/a			

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...Antonio Montinaro.... Date.....29/10/2020.....

(Authorised to sign as representative of Operator)

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Water 1 -15th October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
CWMS05	Cadmium	mg/l	Quarterly	n/a			
	Calcium	mg/l	Quarterly	n/a			
	Chromium	mg/l	Quarterly	n/a			
	Copper	mg/l	Quarterly	n/a			
	Iron	mg/l	Quarterly	n/a			
	Lead	mg/l	Quarterly	n/a			
	Magnesium	mg/l	Quarterly	n/a			
	Manganese	mg/l	Quarterly	n/a			
	Mercury	mg/l	Quarterly	n/a			
	Nickel	mg/l	Quarterly	n/a			
	Potassium	mg/l	Quarterly	n/a			
	Sodium	mg/l	Quarterly	n/a			
	Zinc	mg/l	Quarterly	n/a			
	Alkalinity as CaCO ₃	mg/l	Quarterly	n/a			
	TON as N	mg/l	Quarterly	n/a			
	Sulphate	mg/l	Quarterly	n/a			
	TOC as C	mg/l	Quarterly	n/a			
	Cyanide, Total as CN	mg/l	Quarterly	n/a			
	Phenols Mono	mg/l	Quarterly	n/a			
	TPH >C6-C40	mg/l	Quarterly	n/a			
	TPH >C6-C8	mg/l	Quarterly	n/a			
	TPH> C8-C10	mg/l	Quarterly	n/a			
	TPH> C16-C24	mg/l	Quarterly	n/a			
	TPH> C24-C40	mg/l	Quarterly	n/a			
	TPH> C10-C16	mg/l	Quarterly	n/a			

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

SignedBeth Jones.....Date.....29/10/2020.....

(Authorised to sign as representative of Operator)

Permit Number: TP3835LV

Operator: SI Green UK Limited

Installation: Cwmrhydyceirw Quarry

Form Number: Sewer 1 - 15th October 2008

Reporting of emissions to water (other than to sewer) for the period from 01 July 2020 - 30 Sept 2020

Discharge Point to Foul Sewer Treated Leachate	Volume	0 m ³ /day	Daily total m ³	0	To Be Agreed With The Agency	n/a	flow meter
	Rate of discharge	0 m ³ /hour	Daily maximum				

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...Beth Jones..... . Date.....29/10/2020.....
(Authorised to sign as representative of Operator)