

Permit Number:	TP3835LV		Test method	
Operator:	SI Green UK Limited		Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	
Installation:	Cwmrhydyceirw Quarry			
Schedule 4 - Emissions and monitoring				
Table S4.4 and Table 2a from the Updated Management Report dated January 2021			Uncertainty	
Reporting of emissions to water (other than to sewer) for the period from			Accuracy of testing equipment	
01 January - 31 March	Quarter 1	2023		
Groundwater monitoring borehole			CWMLS02	L9B
Monthly		Units		
Water level	January	depth	-	0.66
Water level	February	depth	-	0.87
Water level	March	depth	-	0.85
Sample collection date			03/02/2023	22/02/2023
Analyte	Emission limit value	Units		
Quarterly				
pH	not set	pH units	7.8	7.3
Ammoniacal Nitrogen as N	not set	mg/l	0.12	0.14
Chloride as Cl	not set	mg/l	38.9	3400
Conductivity- Electrical 20C	not set	uS/cm	654	15887
Alkalinity as CaCO3	not set	mg/l	143	2800
Calcium , Total as Ca	not set	mg/l	115	45.5
Potassium , Total as K	not set	mg/l	11.8	275
Sodium , Total as Na	not set	mg/l	24.8	977
Nitrogen, Total Oxidised as N	not set	mg/l	0.98	0.46
Chemical Oxygen Demand (Total)	not set	mg/l	28	1150
Total Organic Carbon as C	not set	mg/l	24.4	122
Sulphate as SO4, High Level	not set	mg/l	104	32.4
Six monthly				
Iron, Total as Fe	not set	ug/l	120	1700
Manganese , Total as Mn	not set	ug/l	20.4	281
Cadmium , Total as Cd	not set	ug/l	<0.11	<0.11
Chromium , Total as Cr	not set	ug/l	10.2	19.6
Copper , Total as Cu	not set	ug/l	7.5	5.7
Nickel , Total as Ni	not set	ug/l	<1.5	32.9
Lead , Total as Pb	not set	ug/l	<4.1	<4.1
Magnesium, Total as Mg	not set	mg/l	6.9	53.1
Mercury, Total as Hg	not set	ug/l	<0.05	<0.05
Zinc , Total as Zn	not set	ug/l	<1.1	<1.1

[1] The result given is the maximum value (or the minimum value in the case of a limit that is

[2] Where an internationally recognised standard test method is used the reference number is

[3] For non-continuous measurements the date and time of the sample that produced the result

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

Signed ...Guy Titman.....

Date...25.04.2023.....

(Authorised to sign as representative of Operator)

Permit Number:	TP3835LV			Operator:		SI Green UK Limited	
Installation:	Cwmrhydyceirw Quarry						
Schedule 4 - Emissions and monitoring				Table S4.5 and Table 5a from the Updated Management Report dated January 2021			
Reporting of emissions to water (other than to sewer) for the period from				Quarter 1	01 January - 31 March		2023
Emission Point	Substance /Parameter	Emission Limit Value/Unit	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMLS02	Water Level	mAOD	Spot Sample	-	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	10/01/2023	Accuracy of testing equipment
				-		03/02/2023	
				-		08/03/2023	
CWMLS02	Discharge volume	54 m³/day	Spot Sample	-		10/01/2023	
				-		03/02/2023	
				-		08/03/2023	
CWMLS02	Flow Rate	5.4 m³/hr	Spot Sample	#VALUE!		10/01/2023	
				#VALUE!		03/02/2023	
				#VALUE!		08/03/2023	

[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

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has

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

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

Signed ...Guy Titman.....

Date...25.04.2023.....

(Authorised to sign as representative of Operator)