

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			01 January 2021 - 31 March 2021				
Groundwater monitoring borehole			CWMS01	CWMS02	CWMS03A	CWMS03B	CWMS05
Monthly		Units					
Water level	January	mAOD		32			
Water level	February	mAOD		32			
Water level	March	mAOD		32			
Analyte	Emission limit value	Units					
Monthly - CWMS02 only							
January							
Sample collection date			28/01/2021				
Suspended solids	40	mg/l		24.4			
pH	>6 - <9	pH units		7.4			
Ammoniacal Nitrogen as N	2.1	mg/l		0.09			
Chloride as Cl	221	mg/l		25.9			
Cadmium , Total as Cd	0.2	ug/l		<0.08			
Nickel , Total as Ni	50	ug/l		<1.5			
Naphthalene	1	ug/l		<0.05			
Pentachlorophenol	1	ug/l		<0.05			
February							
Sample collection date			24/02/2021				
Suspended solids	40	mg/l		22.4			
pH	>6 - <9	pH units		7.4			
Ammoniacal Nitrogen as N	2.1	mg/l		0.13			
Chloride as Cl	221	mg/l		26.3			
Cadmium , Total as Cd	0.2	ug/l		<0.12			
Nickel , Total as Ni	50	ug/l		<1.5			
Naphthalene	1	ug/l		<0.05			
Pentachlorophenol	1	ug/l		<0.05			
March							
Sample collection date			17/03/2021				
Suspended solids	40	mg/l		3.2			
pH	>6 - <9	pH units		7.6			
Ammoniacal Nitrogen as N	2.1	mg/l		0.56			
Chloride as Cl	221	mg/l		65.6			
Cadmium , Total as Cd	0.2	ug/l		<0.12			
Nickel , Total as Ni	50	ug/l		<1.5			
Naphthalene	1	ug/l		<0.05			
Pentachlorophenol	1	ug/l		<0.05			
Quarterly							
Dissolved Oxygen, Fixed	not set	mg/l	10.6	7.8	11	11	10.1
pH	not set	pH units	7.6	7.8	7.7	7.9	7.7
Conductivity- Electrical 20C	not set	uS/cm	170	352	174	177	178
Suspended solids	not set	mg/l	2	24	14	53	25
Ammoniacal Nitrogen as N	not set	mg/l	<0.41	<0.41	<0.41	<0.41	<0.41
BOD + ATU (5 day)	not set	mg/l	<1	<1	<1	<1	<1
COD (Total)	not set	mg/l	21	19	26	29	17
Chloride as Cl	not set	mg/l	20.7	25.6	20.4	19.9	14.1
Six monthly							
Alkalinity as CaCO3	not set	mg/l					
Sulphate as SO4	not set	mg/l					
Calcium , Total as Ca	not set	mg/l					
Sodium , Total as Na	not set	mg/l					
Potassium , Total as K	not set	mg/l					
Magnesium, Total as Mg	not set	mg/l					
Iron, Total as Fe	not set	mg/l					
Manganese , Total as Mn	not set	mg/l					
Cadmium , Total as Cd	not set	mg/l					
Mercury, Total as Hg	not set	mg/l					
Chromium , Total as Cr	not set	mg/l					
Copper , Total as Cu	not set	mg/l					
Lead , Total as Pb	not set	mg/l					
Nickel , Total as Ni	not set	mg/l					
Zinc , Total as Zn	not set	mg/l					
Total cyanides	not set	mg/l					
TPH	not set	mg/l					
Total phenols	not set	mg/l					
TOC as C	not set	mg/l					
Nitrogen, Total Oxidised as N	not set	mg/l					
Annual							
Hazardous substances							

[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...30.04.2021.....

(Authorised to sign as representative of Operator)

Permit Number:	TP3835LV			Operator:		SI Green UK Limited	
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Reporting of emissions to water (other than to sewer) for the period from				01 January 2021 - 31 March 2021			
Emission Point	Substance /Parameter	Emission Limit Value/Unit	Reference Period	Result ^[1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
CWMS02	Water Level	m	Spot Sample	32	Methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)	29/01/2021	Accuracy of testing equipment
				32		26/02/2021	
				32		02/04/2021	
CWMS02	Discharge volume	m³	Spot Sample	11,612		24/07/2020	
				13,875		28/08/2020	
				7,668		25/09/2020	
CWMS02	Flow Rate	m³/hr	Spot Sample	17.28		24/07/2020	
				20.65		28/08/2020	
				9.13		25/09/2020	

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