

RELEASES INTO CONTROLLED WATERS

Release Summary for Quarter 2

Year 2021 Permit No. BL 4567

Operator Vale Europe Ltd.,

Location: Clydach SA6 5QR

Parameter	Release Point Number									
	W1		Cooling Water flows (at W1)	W3	W4	W5	W6	W7	W8	W9
	<i>Limits</i>	Results								
Maximum Flow m ³ /hour	<i>625</i>	280.67		---	<i>50</i>	<i>4.5</i>	<i>11</i>	---	<i>3</i>	---
				X	X	X	X	X	X	X
Mean Flow m ³ /hour		106.01	24							
Maximum Flow m ³ /day	<i>15000</i>	6736.00		---	<i>600</i>	<i>13</i>	<i>270</i>	---	<i>15</i>	---
				X	X	X	X	X	X	X
Mean Flow m ³ /day		2544.32	567							
pH Maximum	<i>9.0</i>	9.00								
pH Mean	<i>N</i>	8.47								
pH Minimum	<i>6.0</i>	7.40								
Temperature °C	<i>+20</i>	9.03								
Temperature Canal Abstraction °C *		10.88								
Suspended Solids mg/l	<i>10.0</i>	0.971				X	X	X		
Total Copper mg/l (Cu)	<i>0.5</i>	0.052						X		
Soluble Copper mg/l (Cu)	<i>0.5</i>	0.050						X		
Total Nickel mg/l	<i>2.0</i>	0.656						X		
Soluble Nickel mg/l	<i>2.0</i>	0.598						X		
Total Cobalt mg/l (Co)	<i>0.5</i>	0.055						X		
Soluble Cobalt mg/l (Co)	<i>0.5</i>	0.060								
Free and Fixed Ammonia as Nitrogen mg/l	<i>5.0</i>	0.075								
Oxygen Demand (PV4) mg/l	<i>3.0</i>	0.346								
Arsenic mg/l (As)	<i>0.3</i>	0.011								
Cadmium mg/l (Cd)	<i>0.1</i>	0.010								
Lead mg/l (Pb)	<i>0.5</i>	0.012								
Zinc mg/l (Zn)	<i>1.0</i>	0.011								
Mercury mg/l (Hg)	<i>0.05</i>	0.011								

Limits in Italics

---- denotes no limit

* Not a release, abstraction temperature at NGR SN 6955 0145

Date: As Per Email

Fiona Sharp

Sustainability Co-ordinator

– for Richard De Filippo Sustainability Supervisor

Signed on behalf of Vale Europe Limited.,

Form W1 30/06/2020

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