

## RELEASES INTO CONTROLLED WATERS

Release Summary for Quarter 1

Year 2020 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>	<i>Results</i>								
Maximum Flow m <sup>3</sup> /hour	<i>625</i>	510.96		--- X	<i>50</i> X	<i>4.5</i> X	<i>11</i> X	--- X	<i>3</i> X	--- X
Mean Flow m <sup>3</sup> /hour		235.83	<b>45</b>							
Maximum Flow m <sup>3</sup> /day	<i>15000</i>	12263.00		--- X	<i>600</i> X	<i>13</i> X	<i>270</i> X	--- X	<i>15</i> X	--- X
Mean Flow m <sup>3</sup> /day		5659.88	<b>1068</b>							
pH Maximum	<i>9.0</i>	8.60								
pH Mean	<i>N</i>	7.60								
pH Minimum	<i>6.0</i>	7.00								
Temperature difference °C	<i>+20</i>	6.61								
Temperature Canal Abstraction °C *		8.77								
Suspended Solids mg/l	<i>10</i>	1.4				— X	— X	— X		
Total Copper mg/l (Cu)	<i>1.0</i>	0.028						— X		
Soluble Copper mg/l (Cu)	<i>0.5</i>	0.013						— X		
Total Nickel mg/l	<i>2.5</i>	0.83						— X		
Soluble Nickel mg/l	<i>2.0</i>	0.77						— X		
Total Cobalt mg/l (Co)	<i>1.0</i>	0.009						— X		
Soluble Cobalt mg/l (Co)	<i>0.5</i>	0.004								
Free and Fixed Ammonia as Nitrogen mg/l	<i>5</i>	0.11								
Oxygen Demand (PV4) mg/l	<i>3.0</i>	0.59								

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 Lee Davies Sustainability Supervisor**

Signed on behalf of Vale Europe Ltd.,

Form W1 dated 27/10/03

Email to: [industryregulation.swales@cyfoethnaturiolcymru.gov.uk](mailto:industryregulation.swales@cyfoethnaturiolcymru.gov.uk)