

## Annual Release Summary for Year 31<sup>st</sup> December 2022

Operator Vale Europe Ltd.,

Permit No. BL 4567 IZ

Location: Clydach SA6 5QR

| SUBSTANCE                                  | RELEASE POINT NUMBER                         | RELEASED TO                                        | ACTUAL RELEASED (kg) | ANNUAL RELEASE LIMIT (kg) (where applicable) |
|--------------------------------------------|----------------------------------------------|----------------------------------------------------|----------------------|----------------------------------------------|
| Total Particulate Matter                   | A54a & A 54b                                 | AIR                                                | 71.28                | No Limit                                     |
| Nickel Compounds expressed as Ni           | A54a & A54b                                  | AIR                                                | 19.22                | Site Total 2,500                             |
|                                            | Total of A48                                 | AIR                                                | 14.29                |                                              |
| Sulphur Dioxide (SO <sub>2</sub> )         | A54a & A54b                                  | AIR                                                | 5277.56              | Site Total 15,000                            |
|                                            | Total of A1 to A21 inc. plus A23 to A31 inc. | AIR                                                | 3694.51              |                                              |
| Carbon Monoxide                            | A54a & A54b                                  | AIR                                                | 104599.72            | No Limit                                     |
|                                            | Total of A1 to A21 inc. plus A23 to A31 inc. | AIR                                                | 3022.21              |                                              |
| Oxides of Nitrogen as NO <sub>2</sub>      | A54a & A54b                                  | AIR                                                | 1402.69              | Site Total 130,000                           |
|                                            | Total of A1 to A21 inc. plus A23 to A31 inc. | AIR                                                | 25144.31             |                                              |
| Total Nickel                               | W1 & W7                                      | Controlled Waters                                  | 183.7                | 2,500                                        |
| Soluble Nickel                             | W1 & W7                                      | Controlled Waters                                  | 142.2                | 1,900                                        |
| Total Copper                               | W1                                           | Controlled Waters                                  | 25.9                 | 300                                          |
| Soluble Copper                             | W1                                           | Controlled Waters                                  | 24                   | 300                                          |
| Total Cobalt                               | W1                                           | Controlled Waters                                  | 24.8                 | 300                                          |
| Soluble Cobalt                             | W1                                           | Controlled Waters                                  | 24.7                 | 300                                          |
| Suspended Solids                           | W1, W5 & W6                                  | Controlled Waters                                  | 473.3                | No Limit                                     |
| Total fixed ammonia (as N)                 | S1                                           | Sewer                                              | 62.2                 | No Limit                                     |
| Total Free ammonia (as N)                  | S1                                           | Sewer                                              | ---                  | No Limit                                     |
| Sludges and Solid Wastes containing metals | Includes all metal sent for recycling        | Sent for Landfill and/or Treatment and/or Recovery | As list on page 2    | No Limit                                     |
| Other Process Wastes                       |                                              | Sent for Landfill and/or Treatment and/or Recovery | As list on page 2    | No Limit                                     |

\*\*A 77 Did not operate.

\*\*A 67 Did not operate

| <b>Reused / Recycled / Recovered Waste</b> |         |
|--------------------------------------------|---------|
| Compostable Waste                          | 2658    |
| Metals                                     | 196740  |
| Mixed Waste                                | 29954   |
| Paper and cardboard                        | 59355   |
| Plastics                                   | 9600    |
| Wood                                       | 86880   |
| Pallets (wood and plastic)                 | 8560    |
| Waste Lagging                              | 2140    |
| Rubble                                     | 72380   |
| Glass                                      | 0       |
| Used oils and greases                      | 6434    |
| Waste containing Heavy Metals              | 121678  |
| Other special waste                        | 778757  |
| kg                                         | 1375136 |

| <b>Landfill / Incineration other than energy recovery</b> |               |
|-----------------------------------------------------------|---------------|
| Asbestos                                                  | 25343         |
| Other special waste                                       | 320           |
| Heath services                                            | 31            |
| kg                                                        | 25694         |
|                                                           |               |
| Total Waste for 2022                                      | <b>Tonnes</b> |
|                                                           | 1400.8        |

Date: As per email.

*Richard De Filippo*  
Sustainability Supervisor  
Signed on behalf of Vale Europe Limited,  
Form Y1 date 27/10/03