Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Emissions to Sewer for the period from JULY 2014 **to** SEPTEMBER 2014

Form Number: S1

Emission Point	Substance or Parameter	Emission Limit Value	Result[1]	Test Method [2]	Sample Date and Times [3]	Accreditation/Certification [4]	Uncertainty [5]
T13	Cadmium	10 µg/l	10	AAS.	16.7.14		
T1	Maximum pH	3.0	2.08	CONTINUOUS MONITORING	29.7.14		
T1	Redox Potential	300 mV	179	CONTINUOUS MONITORING	29.9.14		
T2	Minimum pH	10.5	11.81	CONTINUOUS MONITORING.	18.8.14		
T2	Redox Potential	300 mV	328	CONTINUOUS MONITORING	21.8.14		
T5	Minimum pH	9	9.49	CONTINUOUS MONITORING	2.7.14		
T5	Maximum pH	11	10.68	CONTINUOUS MONITORING	17.7.14		
S1	Flow	-					
S1	Cadmium	0.05 mg/l	0.01	AAS	7.7.14		
S1	Cadmium	150 g/year	7.14				
S1	Chromium (VI)	0.1 mg/l	0.090	COLOURIMETRY	14.7.14		
S1	Chromium	2 mg/l	0.40	NITRIC ACID DIGEST ICP	13.8.14		
S1	Copper	2 mg/l	0.84	AAS	15.7.14		
S1	Nickel	2 mg/l	1.0	NITRIC ACID DIGEST ICP	13.8.14		
S1	Zinc	2 mg/l	0.50	NITRIC ACID DIGEST ICP	13.8.14		
S1	Free cyanide	1.0 mg/l	0.59	COLOURIMETRY	13.8.14		

[1] The result given is the maximum value (or 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.

[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. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

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

Signed .....

(Authorised to sign as representative of the Operator)

Date 29/1/15.

Date of Form:01/2006

29 JAN 2015

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Emissions to Sewer for the period from OCTOBER 2014 **to** DECEMBER 2014

Form Number: S1

Emission Point	Substance or Parameter	Emission Limit Value	Result[1]	Test Method [2]	Sample Date and Times [3]	Accreditation/Certification [4]	Uncertainty [5]
T13	Cadmium	10 µg/l	10	AAS	1 · 12 · 14		
T1	Maximum pH	3.0	2-06	CONTINUOUS MONITORING	27 · 11 · 14		
T1	Redox Potential	300 mV	201	CONTINUOUS MONITORING	11 · 11 · 14		
T2	Minimum pH	10.5	11·6	CONTINUOUS MONITORING	4 · 12 · 14		
T2	Redox Potential	300 mV	355	CONTINUOUS MONITORING	23 · 10 · 14		
T5	Minimum pH	9	9·53	CONTINUOUS MONITORING	15 · 10 · 14		
T5	Maximum pH	11	10·33	CONTINUOUS MONITORING	26 · 11 · 14		
S1	Flow	-					
S1	Cadmium	0.05 mg/l	0·01	AAS	2 · 10 · 14		
S1	Cadmium	150 g/year	4·12.				
S1	Chromium (VI)	0.1 mg/l	0·091	COLOURIMETRY	1 · 12 · 14		
S1	Chromium	2 mg/l	0·20	NITRIC ACID DIGEST ICP	9 · 12 · 14		
S1	Copper	2 mg/l	1·50	NITRIC ACID DIGEST ICP	9 · 12 · 14		
S1	Nickel	2 mg/l	1·17	AAS	25 · 11 · 14		
S1	Zinc	2 mg/l	0·51	AAS	11 - 11 · 14		
S1	Free cyanide	1.0 mg/l	0·31	COLOURIMETRY	9 · 12 · 14		

[1] The result given is the maximum value (or 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.

[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. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

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

Signed .....

(Authorised to sign as representative of the Operator)

Date 29/1/15

Date of Form:01/2006

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Waste Disposal and Recovery for the year 2014

Form Number: **R1**

Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
1) Hazardous Wastes			
Effluent treatment sludge		27.68	
Solvents		0	
Other hazardous wastes		26.404	0.34
Total hazardous waste		54.084	0.34
2) Non-Hazardous Wastes			
Metal waste		0	65.83
Other non-hazardous waste		22.92	8.69
Total non-hazardous waste			

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Hazardous Waste for Disposal (tonnes)	Hazardous Waste for Recovery (tonnes)	Non-Hazardous Waste (tonnes)
2005			
2006			
2007			
2008			
2009			
2010			

Operator's comments :

Signed .....

(Authorised to sign as representative of the Operator)

Date 28/1/15.

Date of Form:01/2006

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Water Usage for the year 2014

Form Number: **WU1**

Water Source	Usage (m^3)	Specific Usage (m^3/kg)
Mains water (potable)	4921	15.1
Effluent discharge	2435	7.5
TOTAL WATER USAGE		

Trends in Water Usage		
Year	Parameter	
	Water usage (m^3)	Effluent discharge (m^3)
2005		
2006		
2007		
2008		
2009		
2010		

Operator's comments : 325kg CADMIUM USED 2014

Signed .....
(Authorised to sign as representative of the Operator)

Date 28/1/15.

Date of Form:01/2006

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

Reporting of Emissions to Air for the year 2014

Form Number: **A1**

Emission Point	Substance or Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
A1	Particulate matter	2 mg/m³	0.64	BSEN 13284-1	21/10/14	MCERTS	
A2	Particulate matter	10 mg/m³	0.64	BSEN 13284-1	21/10/14	MCERTS	
A3	Particulate matter	2 mg/m³	0.22	BSEN 13284-1	21/10/14	MCERTS	
A4	Scrubber liquor pH minimum	10.5	11.45	pH MCERTS	21/10/14		
A4	Oxides of nitrogen (as NO_2)	1.5 mg/m³	1.67	BSEN 14792	21/10/14	MCERTS.	
A4	Particulate matter	2 mg/m³	0.42	BSEN 13284-1	21/10/14	MCERTS	
Installation	Solvent consumption	3000 kg/year	0				

Operator's comments :

[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.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

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

Signed .....

(Authorised to sign as representative of the Operator)

Date 28/1/15

Date of Form:01/2006

Operator: AB Connectors Ltd

Permit Reference Number: BV7443IP

Installation: Abercynon Inorganics

Form Number: E1

Reporting of Energy Usage for the year 2014

Energy Source	Energy Usage		CO_2 Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh 2413·210	5791·704	2490·4
Natural Gas	MWh 592·932	592·932	255·0
TOTAL			
	3006·142	6384·64	2745·4

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage (MWh)	CO_2 Produced (tonnes)	CO_2 per unit output (tonnes/tonne)
2011	9241	3972	
2012	7265·5	3124·5	
2013	7050·7	3031·8	
2014	6384·64	2745·4	
2015			
2016			
2017			
2018			

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments : BASED ON 0.43 TONNES CO_2/MWH PRIMARY ENERGY

Signed .....

(Authorised to sign as representative of the Operator)

Date 28/1/15.

Date of Form: 01/2013

Operator: **AB Connectors Ltd**

Installation: **Abercynon Inorganics**

Permit Reference Number: **BV7443IP**

2/2/15

Reporting of Performance Indicators for the year ~~2015.~~ 2014

Form Number: **PI1**

Annual Production/Treatment

Quantity of cadmium processed	325	kg Cd

Environmental Performance Indicators [EPI's]

Parameter	Current Year	Units
Primary Energy Usage	6384.6	MWh
Water Use	4921	m^3
Effluent discharge	2435	m^3
Hazardous waste	54084	kg
Non-Hazardous waste	22920	kg

Trends in Environmental Performance

Year	Parameter				
	Primary energy	Water Use	Effluent discharge	Hazardous Waste	Non-Hazardous Waste
	MWh/kg	m^3/kg	m^3/kg	kg/kg	kg/kg
2005					
2006					
2007					
2008					
2009					
2010					

Operator's comments :

Signed .....

(Authorised to sign as representative of the Operator)

Date 28/1/15

Date of Form:01/2006