

BLUESCOPE STEEL (AIS) PTY. LTD. Port Kembla Steelworks Licence 6092

Link to Environment Protection Licence EPL6092

LICENCE MONITORING DATA MONTHLY SUMMARY REPORT

for

1 Jun 2021 to 30 Jun 2021

Monthly (June 2021) Report Published: 30, July, 2021

Date Obtained: 31/07/2021



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Bluescope Steel (AIS) Pty Ltd
ABN 19 000 019625
Port Kembla Steelworks
Five Islands Road
Port Kembla 2505
PO Box 1854
Wollongong NSW 2500

Stack Air Monitoring Requirements

EPL6092 Conditions L2.4/M2.2/M2.3/M8.2/E1.4





Point 2:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max Value
Opacity	%	Continuous	Continuous	0.0	2.5	2.9	14.6
Comment:							

Point 107:

	Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max Value
	Total Solid Particles (Indicative only)	Milligrams per cubic metre	Continuous	Continuous	1.5	5.9	5.8	40.7
Comment:	Flevated results associated with pla	nt shut down and start	un					

Elevated results associated with plant shut down and start up.



Point 151:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured	Min. Value	Mean Value	Max. Value	100 Percentile Limit	Exceedance (yes/no)
Carbon dioxide	percent	Weekly	4	6.8	7.1	7.4	-	
Dioxins & Furans	nanograms per cubic metre	Special Frequency 12	4	0.10	0.11	0.14	0.30	No
Dry Gas Density	kilograms per cubic metre	Daily during testing	4	1.33	1.33	1.34	-	
Flow	cubic metres per second	Daily during testing	4	213	228	248	-	
Hydrogen Chloride	milligrams per cubic metre	Weekly	1	36	36	36	-	
Hydrogen Fluoride	milligrams per cubic metre	Weekly	1	5	5	5	-	
Moisture content	percent	Daily during testing	4	12.5	13.8	14.3	-	
Molecular weight of stack gas	grams per gram mole	Daily during testing	4	29.8	29.9	29.9	-	
Nitrogen Oxides	milligrams per cubic metre	Weekly	4	390	397	409	2000	No
Oxygen	percent	Daily during testing	4	14.9	15.1	15.2	-	
Solid Particles	milligrams per cubic metre	Weekly	1	12	12	12	20	No

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Point 151 (Continue):

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured	Min. Value	Mean Value	Max. Value	100 Percentile Limit	Exceedance (yes/no)
Sulphuric acid mist and sulphur trioxide (SO ₃)	milligrams per cubic metre	Weekly	1	4.6	4.6	4.6	100	No
Sulphur dioxide	milligrams per cubic metre	Weekly	4	337	428	474	1000	No
Temperature	degrees Celsius	Daily during testing	4	161	164	165	-	
Velocity	metres per second	Daily during testing	4	22.7	24.3	25.8	-	
Volumetric flowrate	cubic metres per second	Daily during testing	4	213	228	248	-	
Type 1 Substances	milligrams per cubic metre	Weekly	1	0.14	0.14	0.14	-	
Type 2 Substances	milligrams per cubic metre	Weekly	1	0.075	0.075	0.075	-	

Note: Special Frequency 12 means "Daily at the commencement of the bypass and one sample every 2 days following confirmation that the first 3 daily sample results are less than the licence limit."

Type 1 Substance means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements.

Type 2 Substance means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements.

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Point 151 (Continuous Process Monitoring):

Variable	Units of Measure	Monitoring frequency required by licence	No. of times measured	Min. Value	Mean Value	Max Value
Solid Particles (Indicative Only)	milligrams per cubic meter	Continuous	Continuous	3	11	16

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Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.12, O4.13, O4.14

04.12

Pollutant	Monitoring frequency required by licence	No of significant emissions measured during month	100 Percentile Limit	Exceedance (yes/no) *
Emission - BOS Roof Emission DER 5	Monthly	0	4	no
Comment:				

04.13

Pollutant	Monitoring frequency required by licence	No of significant emissions measured during month	100 Percentile Limit	Exceedance (yes/no) *
Emission - KISH Tipping DER 5	Monthly	0	4	no
Comment:				

04.14

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Pollutant	Monitoring frequency required by licence	No of significant emissions measured during month	100 Percentile Limit	Exceedance (yes/no) *
Emission Torpedo Ladle > DER 4	Monthly	0	1	no
Comment:				



Point 141: Receiver 1 (located south of licensed site)

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	4	0.024	0.0535	0.0490	0.092
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	4	9	7	24
Iron	Micrograms per cubic metre	Every 6 days	4	0.28	0.715	0.59	1.4
Lead	Micrograms per cubic metre	Every 6 days	4	<0.053	<0.053	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.69	0.69	0.69	0.69
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	4	0.61	0.78	0.66	1.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	4	8	16	14	28
Zinc	Micrograms per cubic metre	Every 6 days	4	<0.11	<0.11	0.06	<0.11

Comment:

Blown fuse in the sampler on 22/6/21 - No Benzene, Iron, Lead, PAH, TSS or Zinc data for this day.



Point 152: Receiver 2 (located north of licensed site)

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.029	0.0832	0.0750	0.13
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	7	17	15	33
Iron	Micrograms per cubic metre	Every 6 days	5	0.98	2.156	2.40	2.9
Lead	Micrograms per cubic metre	Every 6 days	5	<0.053	<0.053	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.99	0.99	0.99	0.99
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	1.2	2.16	2.20	2.9
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	24	41	45	62
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.199	0.21	0.3

Point 153: Receiver 3 (located west of licensed site)

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Iron	Micrograms per cubic metre	Every 6 days	5	2.6	3.26	2.90	5.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.053	<0.053	0.03	0.064
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	26	36	38	46
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.13

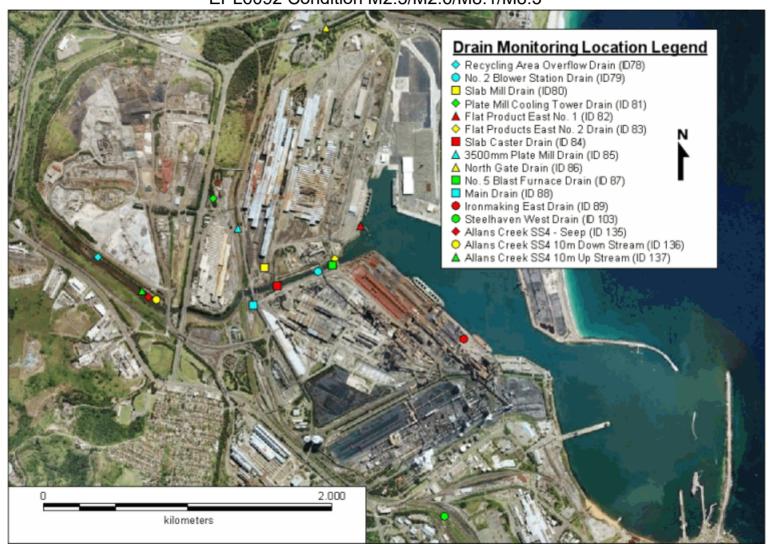


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Five Islands Road
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PO Box 1854
Wollongong NSW 2500

Water and/or Land Monitoring Requirements

EPL6092 Condition M2.5/M2.6/M8.1/M8.3





Point 78:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0	0.00	0
Comment:							

Point 79:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 percentile Dry limit (Wet limit)	Exceedance (yes / no) *
Ammonia	Milligrams per litre	Every 8 days	6	<0.06	0.25	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	6	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	6	<0.01	<0.01	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	6	<5	<5	20 (50)	no
рН		Every 8 days	6	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	6	21.2	26.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	6	0.09	0.14	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	6	<3	4	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	6	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	619017	752550		

Comment:

Point 80:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 percentile Dry limit (Wet limit)	Exceedance (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	437	5250		
Comment:							



Point 82:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 percentile Dry limit (Wet limit)	Exceedance (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	220	1287		
Comment:							

Point 83:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 percentile Dry limit (Wet limit)	Exceedance (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	229		
Comment:							

Point 85:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 Percentile Limit	Exceedance (yes / no) *
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	2	<5	<5	20.0000	no
рН		24/year. Min 15 days apart	2	8.1	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	18.2	18.2	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	4	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	31970	37820		no

Comment:



Point 87:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 percentile Dry limit (Wet limit)	Exceedance (yes / no) *
Ammonia	Milligrams per litre	Every 8 days	3	<0.06	<0.06	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	3	<0.01	<0.01	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	3	<0.5	<0.5	1.5 (1.5)	no
рН		Every 8 days	3	8.2	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	3	18.2	19.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.1	0.43	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	<3	3	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1960	2161		

Comment:

Point 88:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 percentile Dry limit (Wet limit)	Exceedance (yes / no) *
Ammonia	Milligrams per litre	24/year. Min 15 days apart	2	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	24/year. Min 15 days apart	2	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	2	<5	<5	20 (50)	no
pH		24/year. Min 15 days apart	2	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	16.2	17.2	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	4	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	24617	29097		

Comment:

Date Obtained: 31/07/2021



Point 89:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 percentile Dry limit (Wet limit)	Exceedance (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
Comment:				_		·	