



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

**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 2018 to 30 Jun 2018**

Monthly (June 2018) Report Published: 17, August, 2018

## Stack Air Monitoring Requirements

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





**Point 30:**

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) *
Solid Particles	Milligrams per cubic metre	Yearly	2	<1	<1	50.00	no
<b>Comment:</b>							

**Point 105:**

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) *
Solid Particles (3% Oxygen correction)	Milligrams per cubic metre	Yearly	1	11	11	20.00	no
<b>Comment:</b>							



**Point 107:**

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) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	2	0.00026	0.00031		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00097	0.00098		no
Carbon Dioxide	Percent	Quarterly in duplicate	24	4.6	6		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0075	0.008	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	32	1.32	1.35		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	45	48		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	3.4	3.5		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.022	0.023		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0033	0.0067		no
Moisture	Percent	Quarterly in duplicate	32	11	13		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	32	29.6	30.3		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00046	0.0012		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	24	317	473	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	24	16	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	1	6.5	6.5	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	6.4	6.4	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	24	97	123	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	32	136	138		no
Velocity	Metres per second	Quarterly in duplicate	32	15	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	32	300	330		no



**Comment:**

**Point 10:**

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) *
Dry Gas Density	Kilograms per cubic metre	Quarterly	7	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.42	0.42	1.20	no
Moisture	Percent	Quarterly	7	3.3	16		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	7	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	7	26	55		no
Velocity	Metres per second	Quarterly	7	1.9	3.6		no
Volumetric flowrate	Cubic metres per second	Quarterly	8	21	36		no

**Comment:**



**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	3.3	3.1	7.1
<b>Comment:</b>							

**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	Milligrams per cubic metre	Continuous	Continuous	1.2	5.2	4.8	24.7
<b>Comment:</b> Elevated results are associated with plant stop							



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## **Ambient Air Monitoring Requirements**

EPL6092 Condition M2.2/M2.3/O4.14,O4.15 (Cont.)



**O4.13**

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
<b>Comment:</b>				

**O4.14**

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	4	no
<b>Comment:</b>				





**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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	4.8	11.3	9.8	29.8
Benzene	Parts per billion	Every 6 days	5	0.026	0.0504	0.0470	0.099
Iron	Micrograms per cubic metre	Every 6 days	5	0.23	0.526	0.39	1.2
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.86	0.86	0.86	0.86
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.59	0.676	0.59	1
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	9.7	18.74	19.00	24
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
<b>Comment:</b>							



**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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8.7	16.0	14.2	26.5
Benzene	Parts per billion	Every 6 days	5	0.017	0.0792	0.0700	0.16
Iron	Micrograms per cubic metre	Every 6 days	5	0.78	1.776	1.60	3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1	1	1.00	1
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.59	1.208	0.66	3.1
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	23	32.8	28.00	48
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.121	0.06	0.31
<b>Comment:</b>							

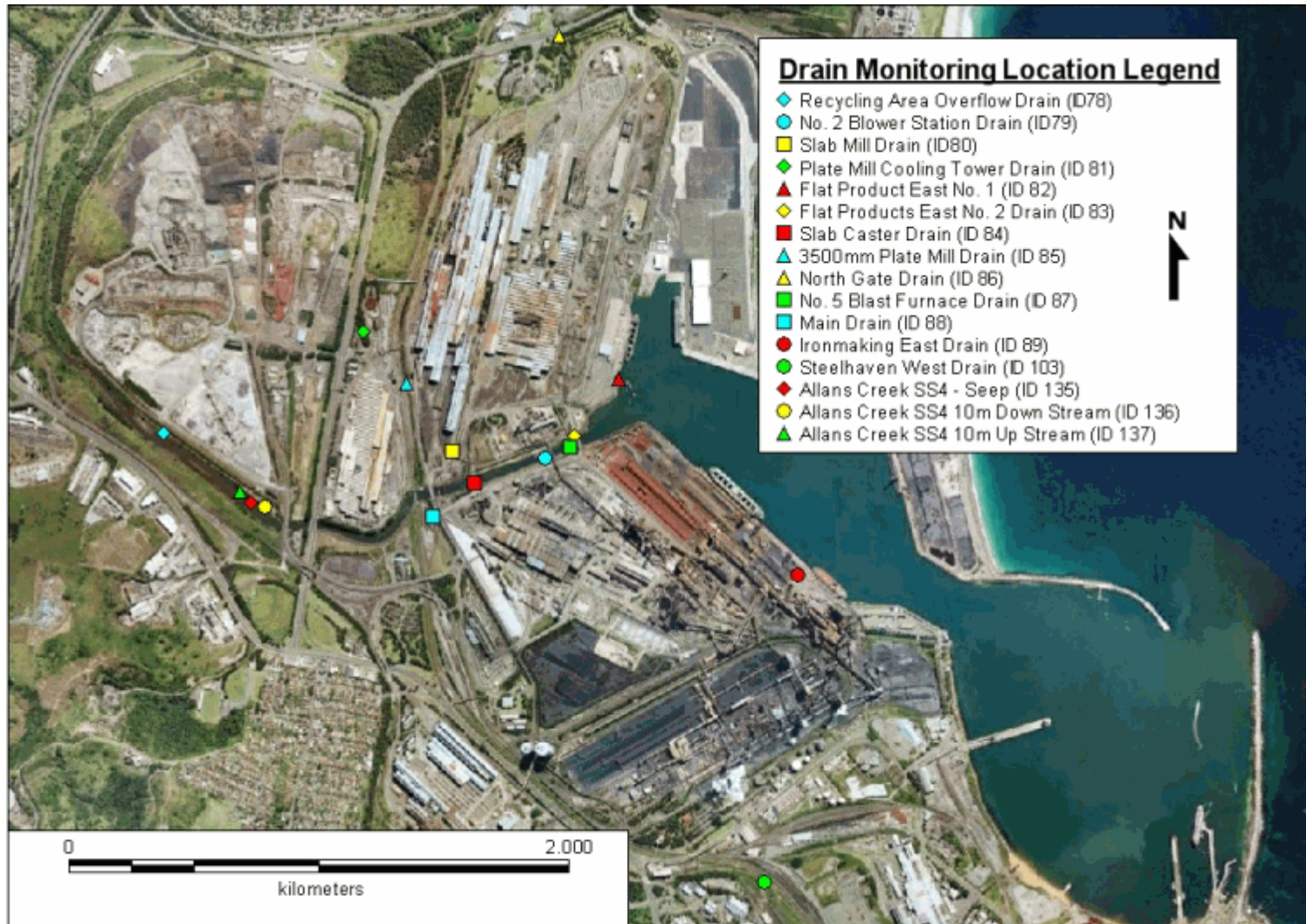


**Point 153: Receiver 3 (located west of licensed site)**

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	4	0.75	1.097	0.92	1.8
Lead	Micrograms per cubic metre	Every 6 days	4	<0.054	<0.054	0.03	0.075
Total suspended particles	Micrograms per cubic metre	Every 6 days	4	24	26.25	26.50	28
Zinc	Micrograms per cubic metre	Every 6 days	4	<0.11	<0.11	0.06	0.12
<b>Comment:</b>							

## 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
<b>Comment:</b>							

**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	3	<0.06	<0.06	5.0 (5.0)	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	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	3	<5	<5	20 (50)	no
pH		Every 8 days	3	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	3	23	26	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.12	0.19	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	12	15	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	3	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	612190	810903		
<b>Comment:</b>							



**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	383.85	2514.19		
<b>Comment:</b>							

**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	0	2206.2		
<b>Comment:</b>							

**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	375.585		
<b>Comment:</b>							



**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
pH		24/year. Min 15 days apart	2	8.1	8.3	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	19	20	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	5	10	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	36185.9	38315		no
<b>Comment:</b>							



**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
pH		Every 8 days	3	8.1	8.3	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	3	18	22	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.2	0.54	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	3	18	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1563.81	1987.38		
<b>Comment:</b>							





**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	Every 8 days	2	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	Every 8 days	2	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	Every 8 days	3	<5	<5	20 (50)	no
pH		Every 8 days	2	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	2	16	17	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	2	6	6	100 (200)	no
Total Zinc	Milligrams per litre	Every 8 days	2	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	12029.2	46254		
<b>Comment:</b>							

**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		
<b>Comment:</b>							