



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**

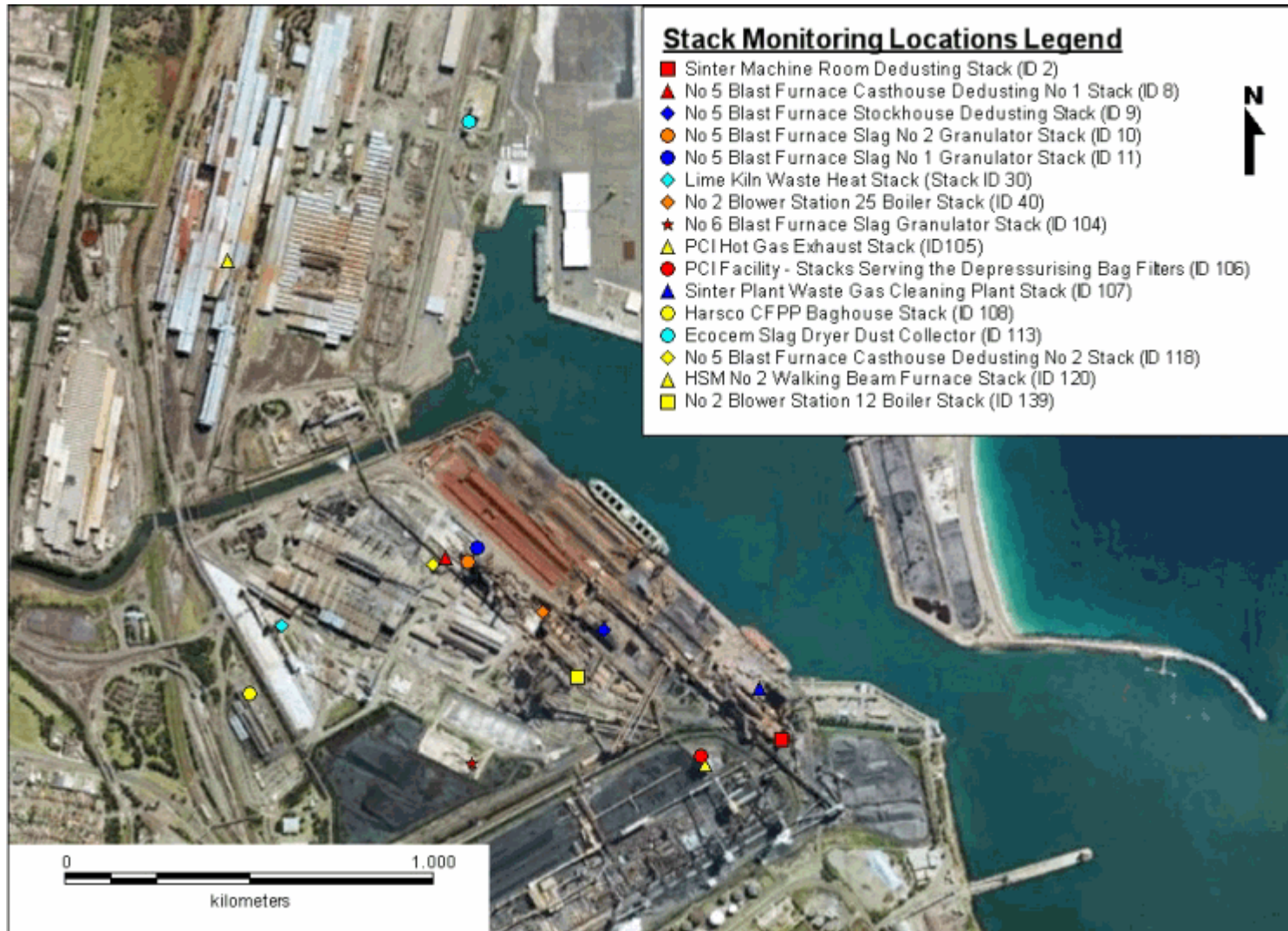
for

**1 Aug 2019 to 31 Aug 2019**

Monthly (August 2019) Report Published: 27, September, 2019

## Stack Air Monitoring Requirements

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





**Point 8:**

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	1	1.6	1.6	50.00	no
<b>Comment:</b>							

**Point 9:**

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	1	5.5	5.5	50.00	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	0.00025	0.00025		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00066	0.00084		no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	9	1.33	1.33		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	1	2.2	2.2		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	22	24		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	1.3	1.5		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.024	0.025		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0032	0.0046		no
Moisture	Percent	Quarterly in duplicate	9	7.5	11		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	9	29.7	29.8		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	<0.00016	0.00051		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	2	3.7	20.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	9	134	137		no
Velocity	Metres per second	Quarterly in duplicate	9	14	16		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	9	280	320		no
<b>Comment:</b>							



**Point 118:**

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	1	<1	<1	50.00	no
<b>Comment:</b>							

**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	8	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.39	0.39	1.20	no
Moisture	Percent	Quarterly	8	2.3	4.2		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	8	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	8	20	30		no
Velocity	Metres per second	Quarterly	8	1.8	2.5		no
Volumetric flowrate	Cubic metres per second	Quarterly	9	20	27		no
<b>Comment:</b>							



**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	1.7	2	12.1
<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	0	5.4	5.1	44.1
<b>Comment:</b> Elevated results associated with plant shutdown and startup							



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## **Ambient Air Monitoring Requirements**

EPL6092 Condition M2.2/M2.3/O4.13,O4.14 (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	1	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
Benzene	Parts per billion	Every 6 days	5	0.019	0.0484	0.0510	0.071
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	5	14	12	45
Iron	Micrograms per cubic metre	Every 6 days	5	0.36	1.092	0.97	2.7
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.98	0.98	0.98	0.98
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.59	0.74	0.68	1.1
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	12	23	21.00	38
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)**

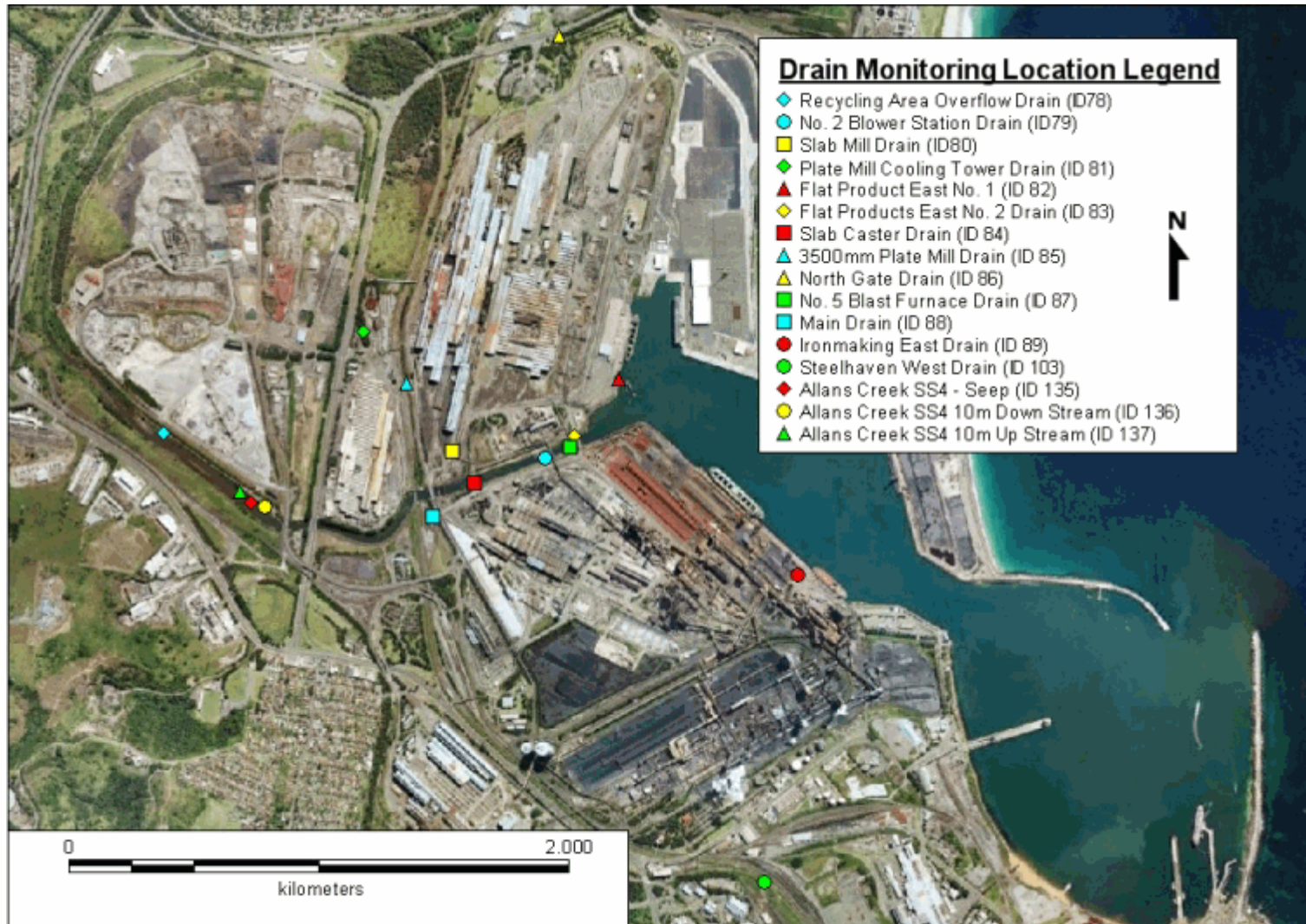
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.021	0.064	0.0430	0.12
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	4	24	20	131
Iron	Micrograms per cubic metre	Every 6 days	5	2	3.52	2.80	7.6
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.1	1.1	1.10	1.1
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.84	1.588	1.20	2.8
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	25	42.2	43.00	58
Zinc	Micrograms per cubic metre	Every 6 days	5	0.11	0.334	0.26	0.87
<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	5	2	3.52	3.70	5.6
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.056
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	30	61.8	54.00	100
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.139	0.14	0.22
<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	10.806	0.00	326
<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	4	<0.06	<0.06	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	<0.01	0.04	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5	<5	20 (50)	no
pH		Every 8 days	4	8	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	21	27	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.09	0.24	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	3	11	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	4	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	650539	789195		
<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	213	2588		
<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	2640		
<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	651		
<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	3	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	3	8.1	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	3	17	18	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	3	<3	17	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	28233	36706		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	4	<0.06	<0.06	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	<0.01	0.02	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	4	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	4	8	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	17	26	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.12	2.2	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4	14	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2142	2375		

**Comment:** Volume of Liquids Discharged is obtained from only 6 days measurement due to a sensor failure on the monitoring equipment.

**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	3	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	Every 8 days	3	<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	3	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	3	14	17	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	<3	4	100 (200)	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	1957	48995		

**Comment:**



**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>							