



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

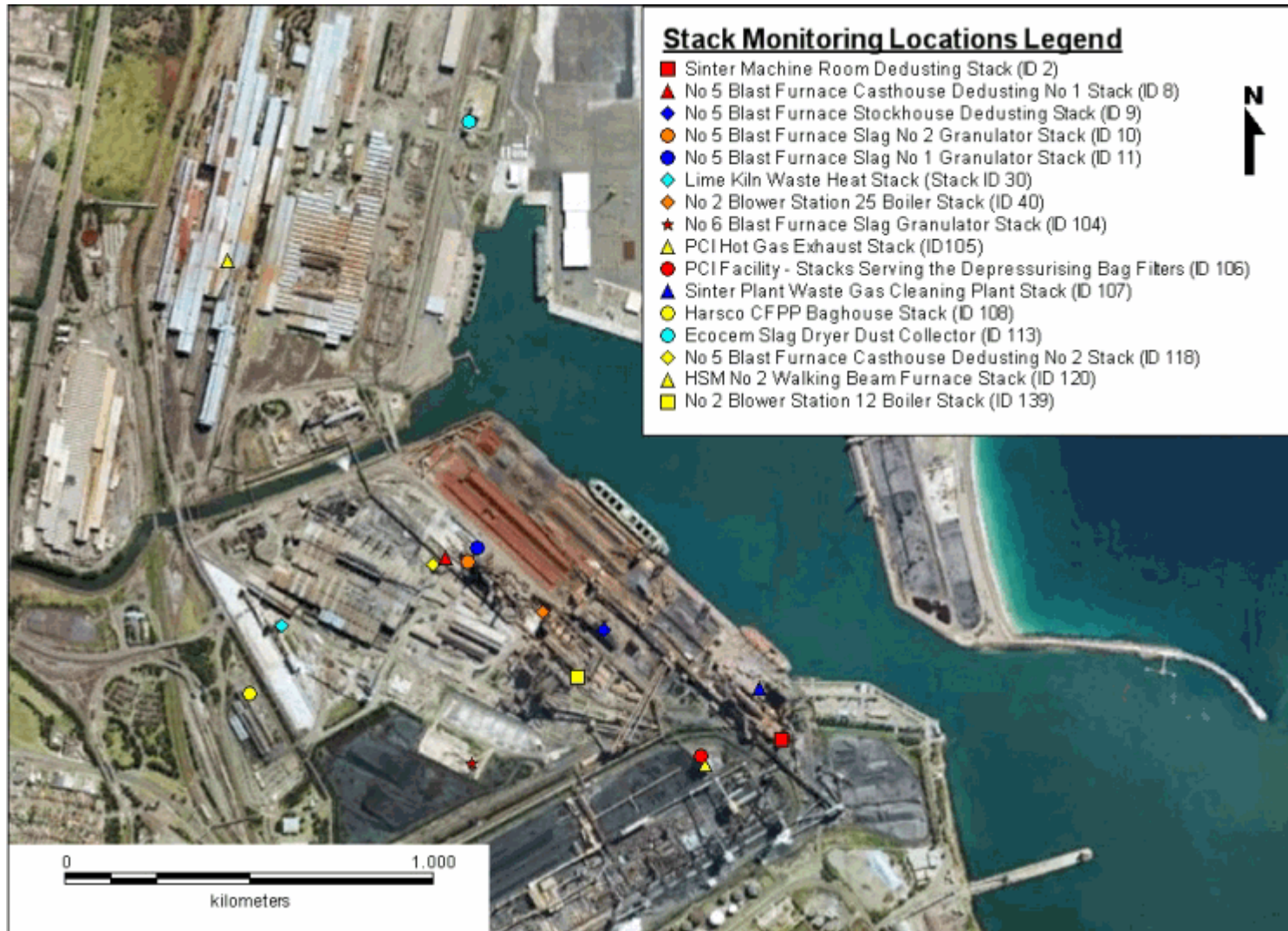
**1 Apr 2020 to 30 Apr 2020**

Monthly (April 2020) Report Published: 1, July, 2020

Date Obtained: 15/06/20

## Stack Air Monitoring Requirements

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



**Point 151 (3A Side):**

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	118	6.1	7.5	8.8	-	-
Dioxins & Furans	nanograms per cubic metre	Weekly	14	0.11	0.3	0.52	0.3	Yes*
Dry Gas Density	kilograms per cubic metre	Daily during testing	168	1.33	1.34	1.35	-	-
Flow	cubic metres per second	Daily during testing	168	180	256	420	-	-
Hydrogen Chloride	milligrams per cubic metre	Weekly	6	30	33	37	-	-
Hydrogen Fluoride	milligrams per cubic metre	Weekly	6	2.8	3.2	3.9	-	-
Moisture content	percent	Daily during testing	168	1	11	14	-	-
Molecular weight of stack gas	grams per gram mole	Daily during testing	168	29.8	30.0	30.3	-	-
Nitrogen Oxides	milligrams per cubic metre	Weekly	89	301	343	399	2000	No
Oxygen	percent	Daily during testing	120	14	15	16	-	-
Solid Particles	milligrams per cubic metre	Weekly	14	1.5	4.5	11	20	No

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 <sub>3</sub> )	milligrams per cubic metre	Weekly					100	
Sulphur dioxide	milligrams per cubic metre	Weekly	92	274	366	500	1000	
Temperature	degrees Celsius	Daily during testing	168	155	172	187	-	-
Velocity	metres per second	Daily during testing	168	11	15	24	-	-
Volumetric flowrate	cubic metres per second	Daily during testing	168	180	256	420	-	-
Type 1 Substances	milligrams per cubic metre	Weekly	7	0.014	0.056	0.13	-	-
Type 2 Substances	milligrams per cubic metre	Weekly	7	0.003	0.024	0.046	-	-

Note: **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.

\*6 exceedances recorded. Refer to [BlueScope in the Illawarra website](#) for action taken.

### Point 151 (3B Side):

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) *
Solid Particles	milligrams per cubic metre	Weekly	9	2.9	6.4	13	20	No



**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	3.6	3.7	29.4
<b>Comment:</b> Elevated results associated with plant shutdown and startup							

**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				
<b>Comment:</b> Sinter Plant by-pass of Point 107 occurred during the month of April, refer to Point 151.							

**Point 151:**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max Value
Solid Particles	Milligrams per cubic metre	Continuous	Continuous	3.2	10.6	10.6	24.7
<b>Comment:</b>							



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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	0.047	0.162	0.160	0.27
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6	19	17	47
Iron	Micrograms per cubic metre	Every 6 days	5	1.3	3.9	2.3	10
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	2.3	2.3	2.3	2.3
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	1.01	1.00	1.6
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	29	48.8	36.0	86
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.081	0.081	0.08	0.081
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.178	0.17	0.44
<b>Comment:</b>							



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

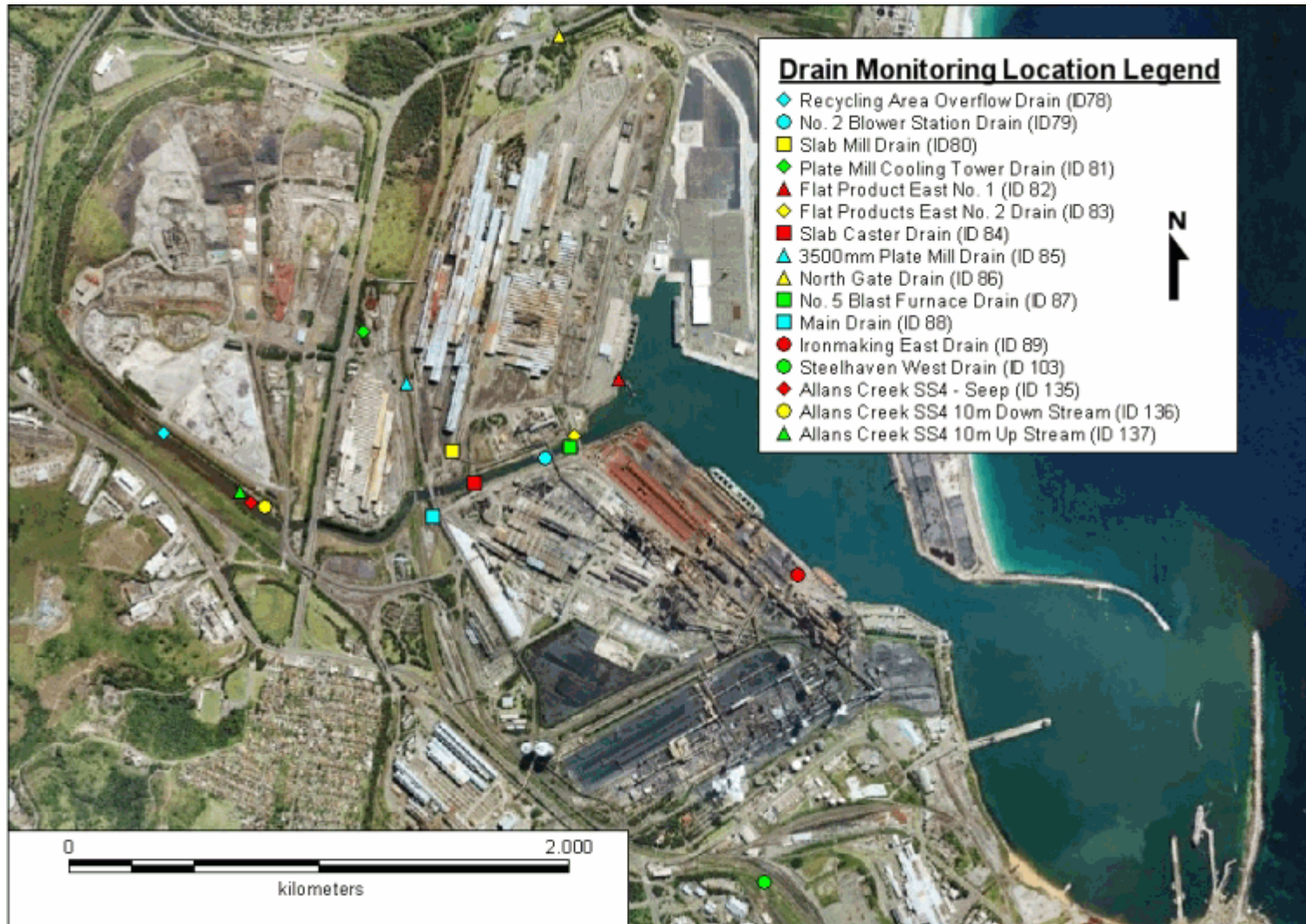
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.016	0.066	0.048	0.16
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8	20	21	28
Iron	Micrograms per cubic metre	Every 6 days	5	0.58	1.75	1.10	3.6
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	2.5	2.5	2.5	2.5
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.62	1.068	0.66	2.3
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	15	41.2	49.0	66
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.021	0.021	0.02	0.021
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.119	0.06	0.27
<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	0.87	3.45	2.60	7.1
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.057
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	24	81.6	75.0	150
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.07	0.07	0.07	0.07
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.125	0.06	0.28
<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	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	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	<0.01	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	8.2	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	23	29	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.12	0.19	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	3	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	586121	620069		
<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	773	4127		
<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	1048		
<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	283		
<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	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	19	22	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	6	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	35287	37872		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	<0.01	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	8.2	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	19	22	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.15	0.24	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	6	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1907	2196		
<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	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	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	19	20	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	3	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	26691	33803		
<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>							