



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

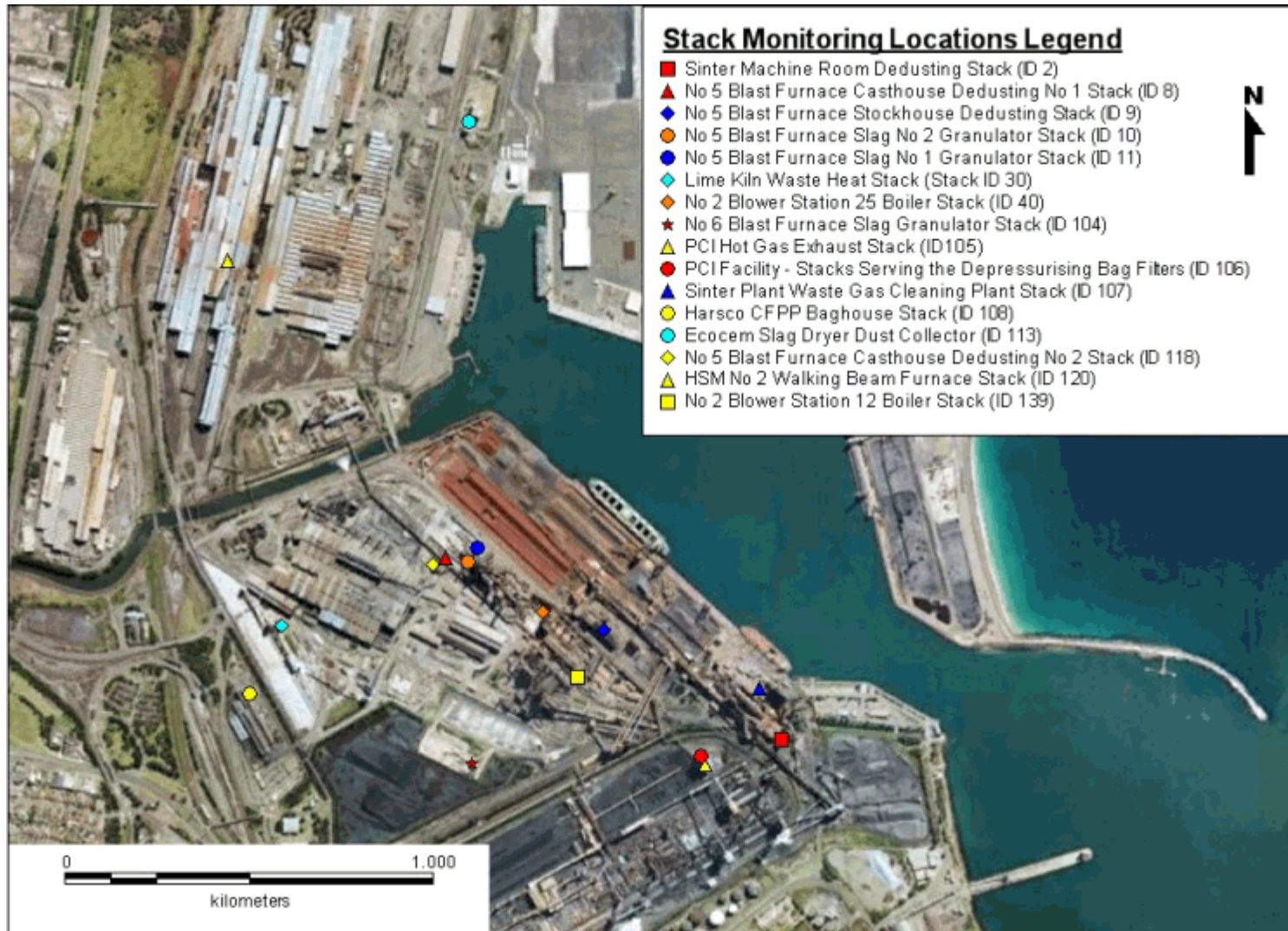
for

1 Jul 2019 to 31 Jul 2019

Monthly (July 2019) Report Published: 30, September, 2019

Stack Air Monitoring Requirements

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





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) *
Carbon Dioxide	Percent	Quarterly in duplicate	24	5.5	6.2		no
Chromium (hexavalent)	Milligrams per cubic metre	Yearly in duplicate	2	0.0003	0.0003		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.016	0.016	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	32	1.33	1.33		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	1	2.1	2.1		no
Moisture	Percent	Quarterly in duplicate	32	8.9	11		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	32	29.7	29.8		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	24	252	293	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	24	16	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	1	3.1	3.1	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	3.6	4.1	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	24	96	134	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	32	135	136		no
Velocity	Metres per second	Quarterly in duplicate	32	14	16		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	32	270	320		no
Comment:							

Point 18:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Hydrogen Sulphide	Milligrams per cubic metre	Quarterly	2	0.93	0.96	0.96	0.99
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	0.8	0.4	6.7
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	Milligrams per cubic metre	Continuous	Continuous	0.6	6	5.5	38.4
Comment: 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
Comment:				

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
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	5	0.023	0.0852	0.0720	0.18
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	5	11	11	23
Iron	Micrograms per cubic metre	Every 6 days	5	0.15	0.856	0.34	2.9
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	0.31	0.31	0.31	0.31
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.59	1.372	0.60	4.4
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	5.8	20.36	17.00	37
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.017	0.017	0.02	0.017
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
Comment:							

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

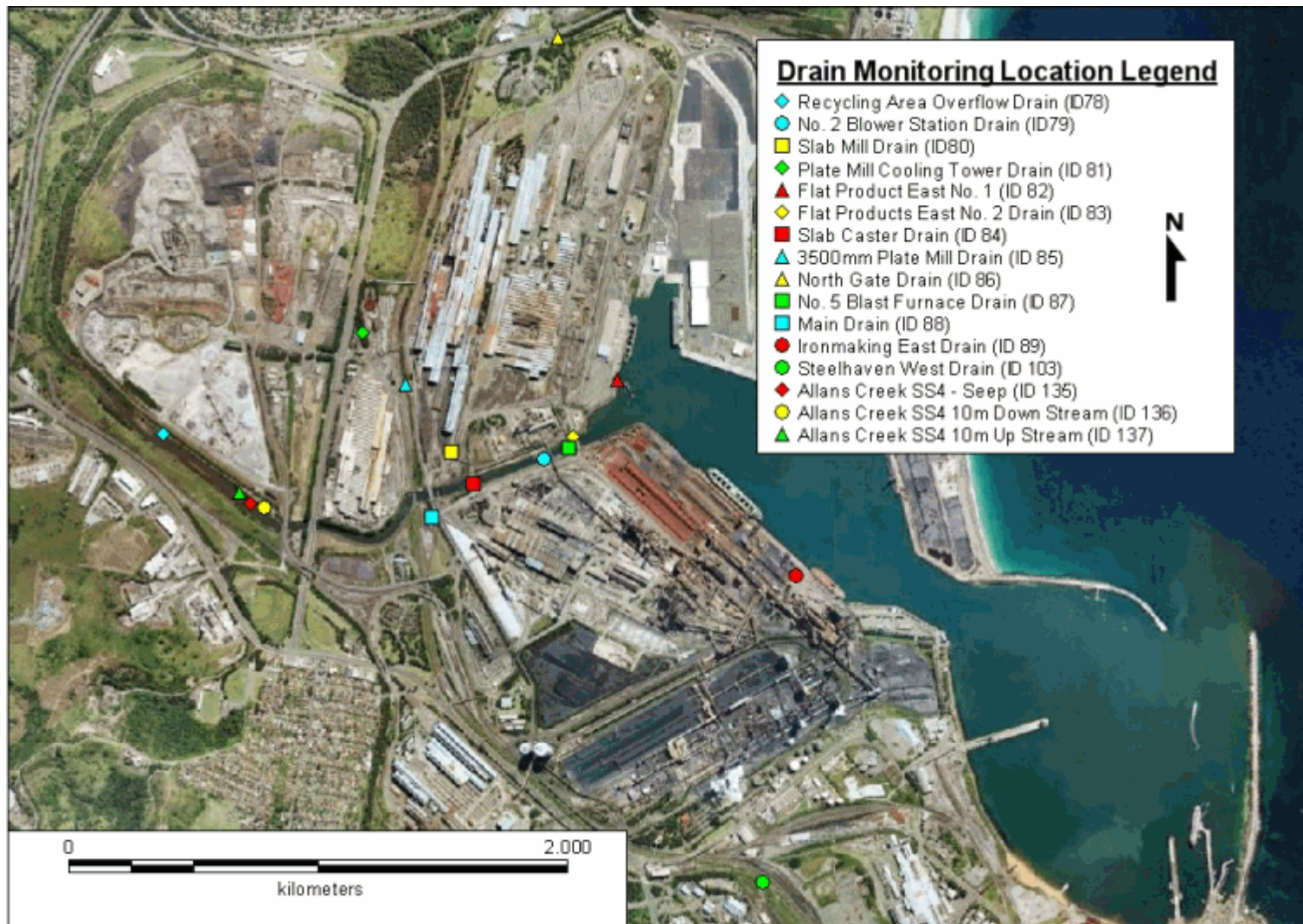
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.016	0.1244	0.1400	0.25
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	9	18	18	35
Iron	Micrograms per cubic metre	Every 6 days	5	1.4	2.32	2.30	3.4
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	0.3	0.3	0.30	0.3
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	1.478	1.80	2.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	21	38.2	39.00	57
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.075	0.075	0.08	0.075
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.11	0.17
Comment:							

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	2.78	2.80	3.4
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	0.075
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	37	72.8	60.00	150
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.17	0.17	0.17	0.17
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.14
Comment:							

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
pH		Daily during any discharge which is not due to Wet Weather Conditions	0				
Total Suspended Solids	Milligrams per litre	Daily during any discharge which is not due to Wet Weather Conditions	0				
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	7	<0.06	<0.06	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	7	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	5	<0.01	<0.01	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	5	<5	<5	20 (50)	no
pH		Every 8 days	5	8.1	8.4	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	5	21	24	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.06	1.4	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	5	15	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	5	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	612249	699977		
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) *
Cyanide	Milligrams per litre	6/yr. Min 50 days apart.	1	0.006	0.006	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	1	7.7	7.7	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	197	1726		
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) *
Cyanide	Milligrams per litre	Quarterly grab sample . Min 80 days apart	1	<0.02	<0.02	0.30 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	733		
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) *
Cyanide	Milligrams per litre	Quarterly grab sample . Min 80 days apart	0			0.15 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	223		
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
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	19	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	35707	36680		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	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	0.03	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	8.8	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	16	17	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.15	33	7 (100)	yes
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4	576	70 (500)	yes
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1634	3395		
Comment: Licence exceedance for Total Iron and Total Suspended Solids							



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	2	<5	<5	20 (50)	no
pH		Every 8 days	2	8.1	8.3	6.5-9.0 (6.5-9.0)	no
Phenol	Milligrams per litre	Every 8 days	1	<0.2	<0.2	0.45 (0.45)	no
Temperature	Degrees Celcius	Every 8 days	2	15	17	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	2	14	34	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	11652	28893		
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) *
Ammonia	Milligrams per litre	Special frequency 11	0			7.0 (7.0)	no
Copper	Milligrams per litre	Special frequency 11	0			1.000	no
Cyanide	Milligrams per litre	Special frequency 11	0			0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Special frequency 11	0			0.5 (0.5)	no
Fluoride	Milligrams per litre	Special frequency 11	0			50 (50)	no
pH		Special frequency 11	0			6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Special frequency 11	0			45 (45)	no
Total Iron	Milligrams per litre	Special frequency 11	0			7 (20)	no
Total Suspended Solids	Milligrams per litre	Special frequency 11	0			100 (200)	no
Total Zinc	Milligrams per litre	Special frequency 11	0			3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
Comment:							