



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

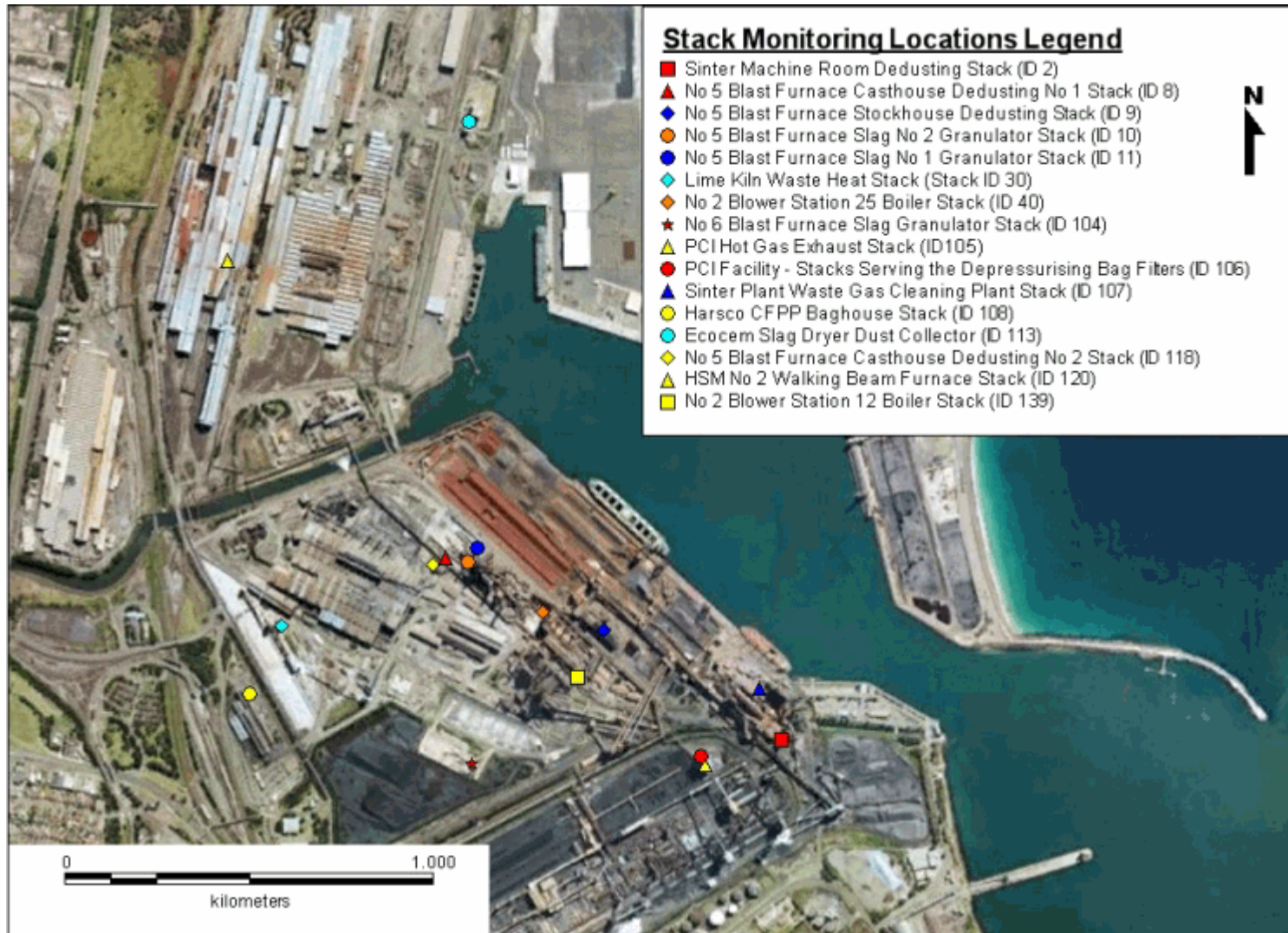
for

1 Oct 2018 to 31 Oct 2018

Monthly (October 2018) Report Published: 19, December, 2018

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	Max Value	100 Percentile Limit	Exceedance (yes / no) *
Solid Particles	Milligrams per cubic metre	Quarterly	1	6.8	6.8	50.00	no
Comment:							

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	11	11	50.00	no
Comment:							



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	0.00033	0.00037		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00038	0.00054		no
Carbon Dioxide	Percent	Quarterly in duplicate	18	5.8	6.9		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	1	0.03	0.03	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	28	1.34	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.3	2.6		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	1	39	39		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	1	3.1	3.1		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.016	0.023		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0022	0.0024		no
Moisture	Percent	Quarterly in duplicate	28	9.3	13		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	28	30	30		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00037	0.0015		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	18	311	388	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	18	16	16		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	3.8	4	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	1	2.5	2.5	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	18	169	279	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	28	127	135		no
Velocity	Metres per second	Quarterly in duplicate	28	14	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	28	270	330		no



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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	0.5	2.9	2.8	10.4
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	1.0	5.2	4.3	30.8
Comment: Elevated results associated with plant shutdown and startup							



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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
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	4	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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6.5	25.2	23.9	52.7
Benzene	Parts per billion	Every 6 days	5	0.019	0.066	0.0210	0.17
Iron	Micrograms per cubic metre	Every 6 days	5	0.4	2.262	1.10	6.4
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	1.5	1.5	1.50	1.5
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.59	1.838	0.60	3.8
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	21	57.8	55.00	110
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.026	0.026	0.03	0.026
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.13
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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6.8	27.1	27.0	44.9
Benzene	Parts per billion	Every 6 days	5	0.022	0.058	0.0590	0.11
Iron	Micrograms per cubic metre	Every 6 days	5	1	3.7	3.50	7.5
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	1.3	1.3	1.30	1.3
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	0.96	0.68	2.1
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	45	60	52	83
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.15	0.15	0.15	0.15
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.174	0.15	0.4
Comment:							

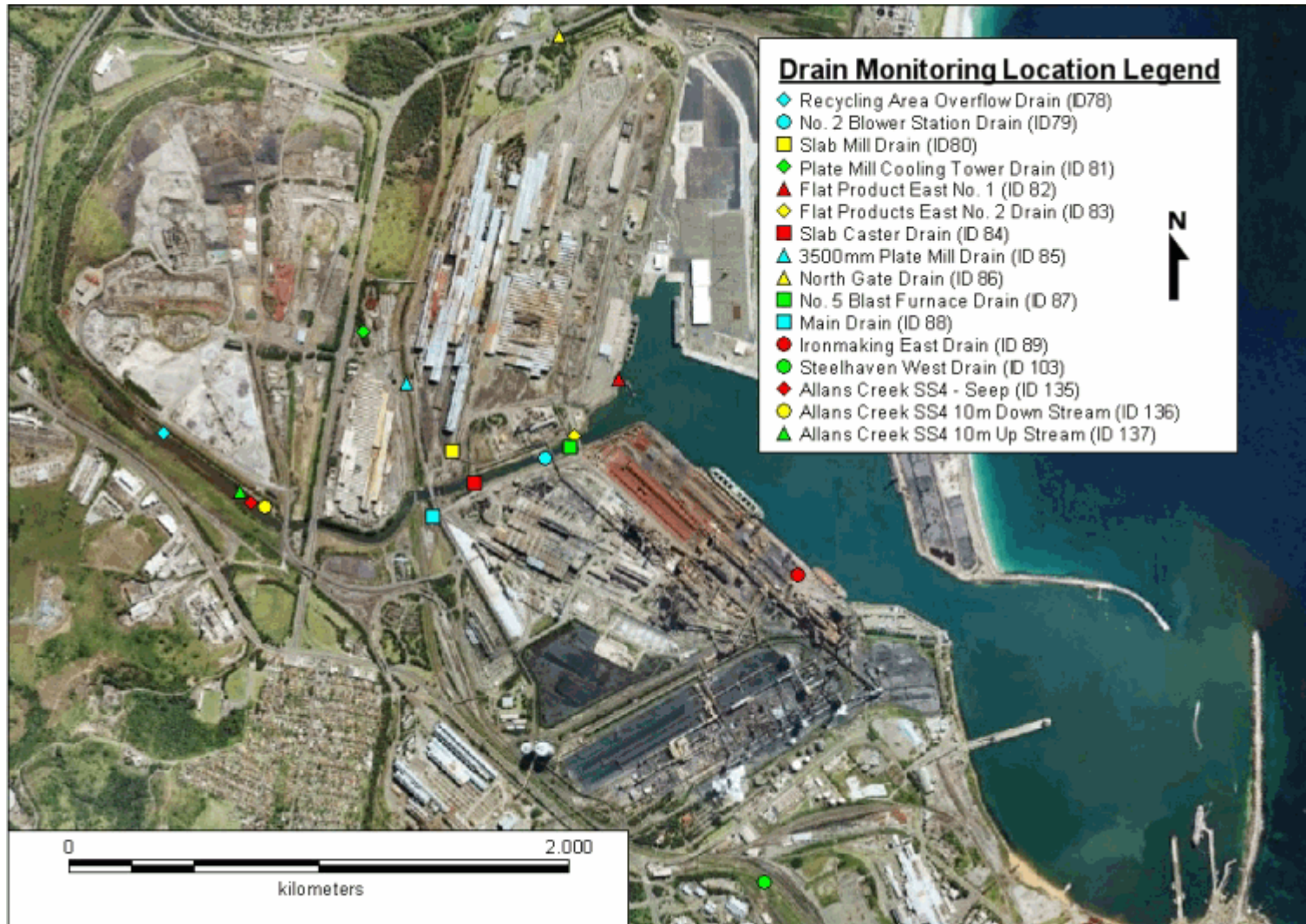


Point 153: Receiver 3 (located west of licensed site)

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	0.3	0.99	0.97	2.1
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	23	41	38	62
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.013	0.013	0.01	0.013
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.27
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
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	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	7.8	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	23	24	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.11	0.34	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	7	12	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	600314	762238		
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	318	3584		
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	3480		
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	1	<0.02	<0.02	0.15 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	897		
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	17	19	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	7	8	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	29039	37805		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	<0.02	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	7.7	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	17	18	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.15	0.54	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	7	15	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1345	1839		
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	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	8.2	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	17	18	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	2	5	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	24944	66365		

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		

Comment: