



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](#)

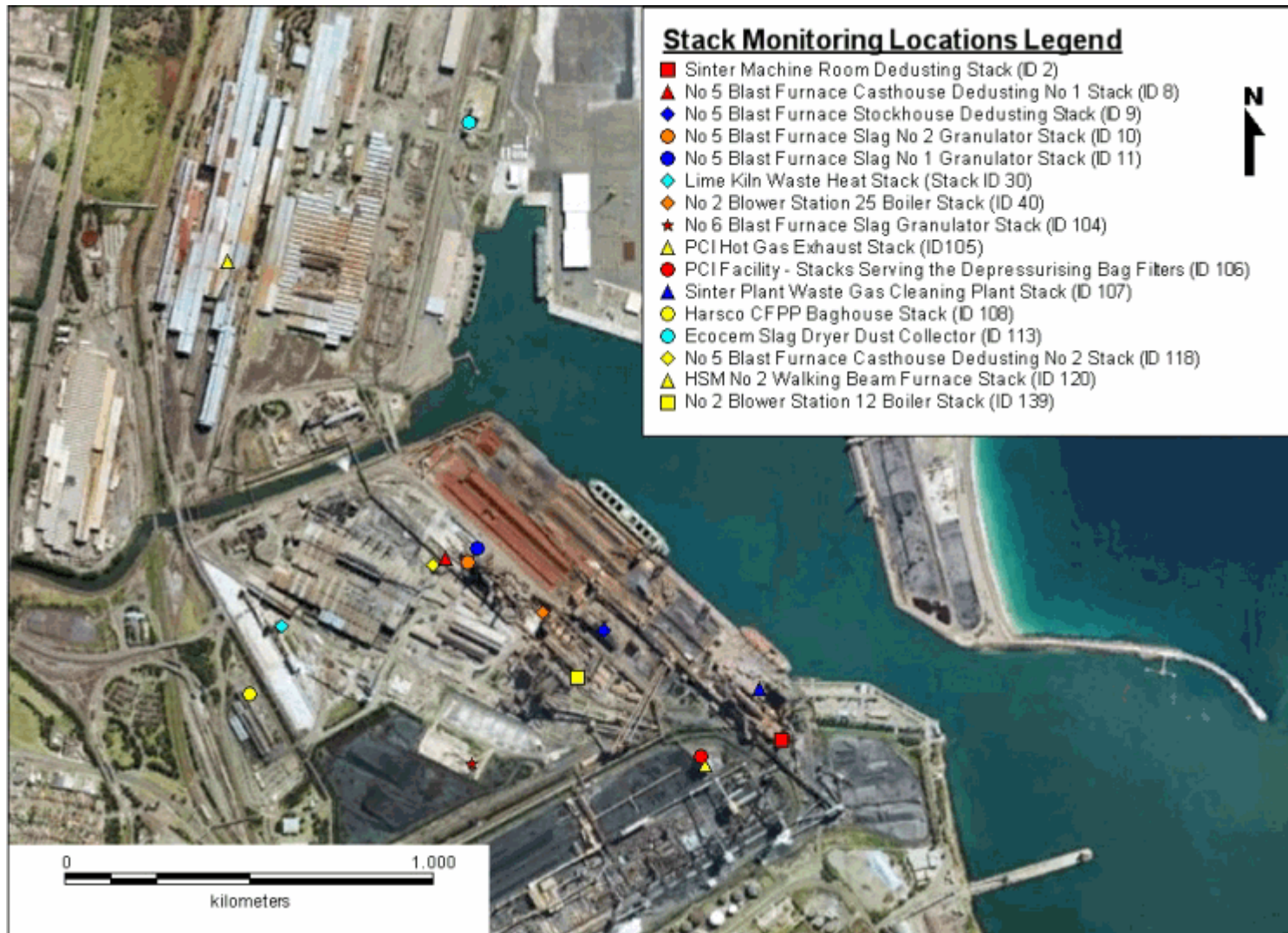
LICENCE MONITORING DATA
MONTHLY SUMMARY REPORT

for

1 Sep 2015 to 30 Sep 2015

Stack Air Monitoring Requirements

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





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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	2	1.20	1.80	50.00	no
Comment:							

Point 40:

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) *
Cadmium (7% Oxygen correction)	Milligrams per cubic metre	Yearly	2	0.00019	0.00044	0.10000	no
Carbon Dioxide	Percent	Yearly	4	20.000	20.000		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	<3.00	<3.00	400.00	no
Dry Gas Density	Kilograms per cubic metre	Yearly	14	1.40	1.42		no
Mercury (7% Oxygen correction)	Milligrams per cubic metre	Yearly	2	0.00310	0.00440	0.10000	no
Moisture	Percent	Yearly	14	11.00	12.00		no
Molecular Weight of stack gases	grams per gram mole	Yearly	14	31.30	31.80		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	122.00	133.00	600.00	no
Oxygen (O2)	Percent	Yearly	4	3.00	3.20		no
Solid Particles (7% Oxygen corrected)	Milligrams per cubic metre	Yearly	2	2.70	2.90	30.00	no
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	233.00	245.00	1,250.00	no
Temperature	Degrees Celcius	Yearly	14	160.00	161.00		no
Type 1 and 2 substances in aggregate (7% Oxygen correction)	Milligrams per cubic metre	Yearly	2	0.0200	0.0370	1.0000	no
Velocity	Metres per second	Yearly	14	8.90	9.60		no
Volumetric flowrate	Cubic metres per second	Yearly	14	53.00	57.00		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	1	1.29	1.29		no
Moisture	Percent	Quarterly	1	4.50	4.50		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	1	28.90	28.90		no
Temperature	Degrees Celcius	Quarterly	1	31.00	31.00		no
Velocity	Metres per second	Quarterly	1	2.80	2.80		no
Volumetric flowrate	Cubic metres per second	Quarterly	1	31.00	31.00		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	4	2.10	2.43	2.40	2.80
Comment:							

Point O4.13:

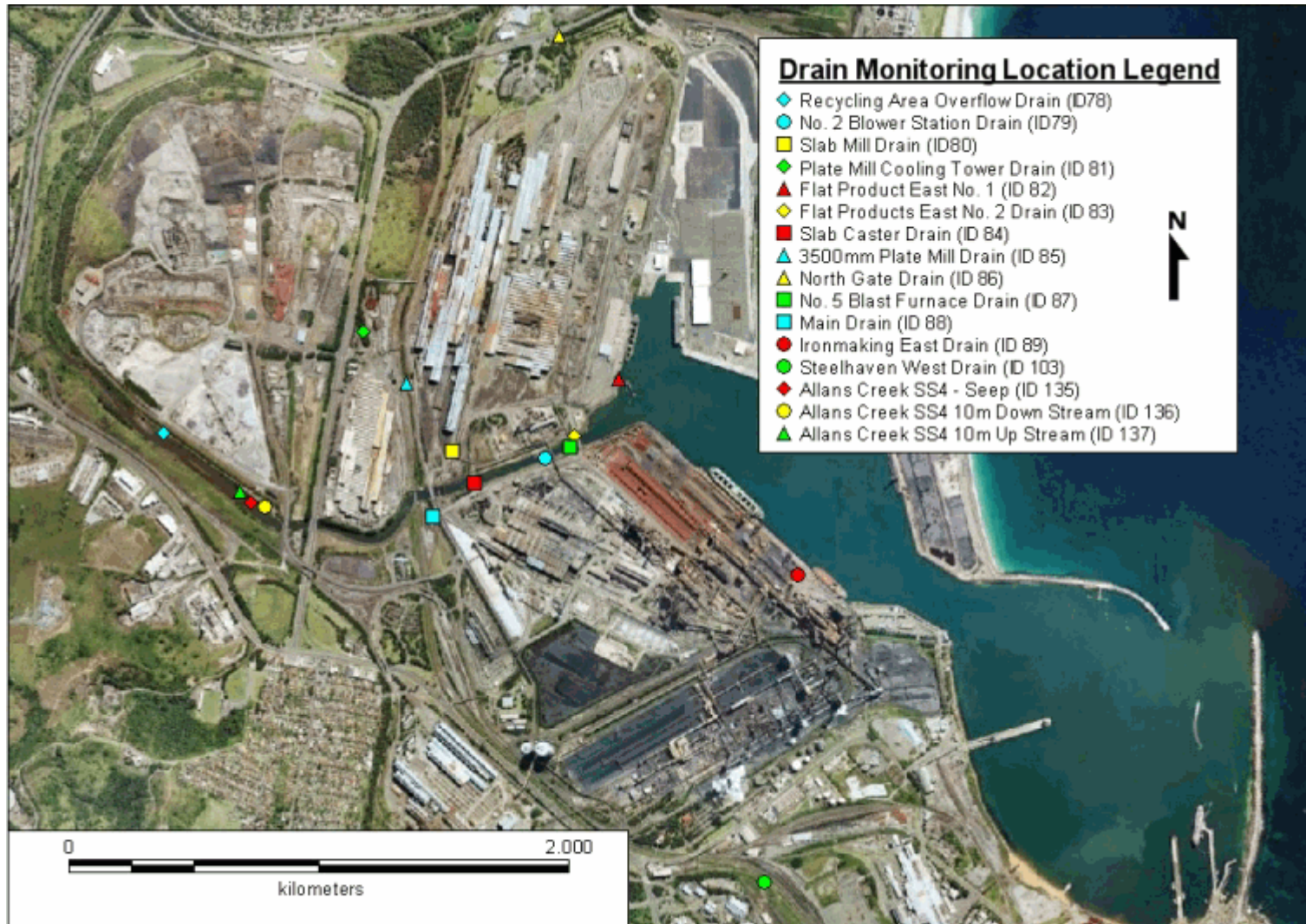
Pollutant	Monitoring frequency required by licence	No of significant emissions measured during month	100 Percentile Limit	Exceedance (yes/no) *
Emission - KISH Tipping DER 5	Monthly	0	4	no
Comment:				

Point 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>3	Monthly	0	4	no
Comment:				

Water and/or Land Monitoring Requirements

EPL6092 Condition M2.4/M2.5/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	0.00	0.00	0.00	0.00
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	<0.0600	<0.0600	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.0200	<0.0200	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	<0.0100	<0.0100	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5.0000	<5.0000	20 (50)	no
pH		Every 8 days	4	8.10	8.20	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	21.40	26.40	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.0900	0.4000	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3.00	14.00	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	4	<0.0500	<0.0500	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	485,537.00	692,084.00		
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	2,074.00	3,932.00		
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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	27.00	725.00		
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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0.00	248.00		
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	<5.0000	<5.0000	20.0000	no
pH		24/year. Min 15 days apart	2	8.10	8.20	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	18.40	19.40	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	3.00	6.80	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	33,552.00	35,642.00		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	<0.0600	<0.0600	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.0200	<0.0200	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	<0.0100	<0.0100	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	4	<0.020	0.030	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	4	<0.50	<0.50	1.5 (1.5)	no
pH		Every 8 days	4	8.10	8.40	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	16.40	19.40	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.0910	5.8000	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	3.20	38.00	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2,080.00	2,453.00		
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	4	<0.0600	0.6300	7.5 (7.5)	no
Ammonia	Tonnes per day	Every 8 days	4	0.0	0.138	1.200	no
Cyanide	Kilograms per day	Every 8 days	4	0.0	0.0	27.00	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.0200	<0.0200	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5.0000	<5.0000	20 (50)	no
Oil and Grease	Tonnes per day	Every 8 days	4	0.0	0.0	2.50	no
pH		Every 8 days	4	8.10	8.20	6.5-9.0 (6.5-9.0)	no
Phenol	Kilograms per day	Every 8 days	4	0.0	0.0	35.00	no
Phenol	Milligrams per litre	Every 8 days	4	<0.2000	<0.2000	0.45 (0.45)	no
Temperature	Degrees Celcius	Every 8 days	4	16.40	19.40	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	5.20	26.00	100 (200)	no
Total Suspended Solids	Tonnes per day	Every 8 days	4	1.07	5.68	12.00	no
Total Zinc	Kilograms per day	Every 8 days	4	0.0	96.28*	35.00	yes*
Total Zinc	Milligrams per litre	Every 8 days	4	<0.0500	0.4700	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	200,662.00	218,442.00		
Comment: * One of four samples resulted in a mass load exceedance.							

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	Every 8 days	4	<0.0600	0.3400	7.0 (7.0)	no
Copper	Milligrams per litre	Every 8 days	4	<0.010	<0.010	1.000	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.0200	<0.0200	0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	0.0200	0.0560	0.5 (0.5)	no
Fluoride	Milligrams per litre	Every 8 days	4	3.10	8.20	50 (50)	no
pH		Every 8 days	4	8.10	8.40	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	19.40	21.90	45 (45)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.6130	5.3000	7 (20)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4.40	32.00	100 (200)	no
Total Zinc	Milligrams per litre	Every 8 days	4	0.0500	0.8470	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	2,237.00	6,329.00		
Comment:							

Point 135:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Ammonia	Milligrams per litre	1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	<0.0600	0.0300	0.0300	<0.0600
pH		1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	8.60	8.60	8.60	8.60
Temperature	Degrees Celcius	1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	17.40	17.40	17.40	17.40
Comment:							