



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

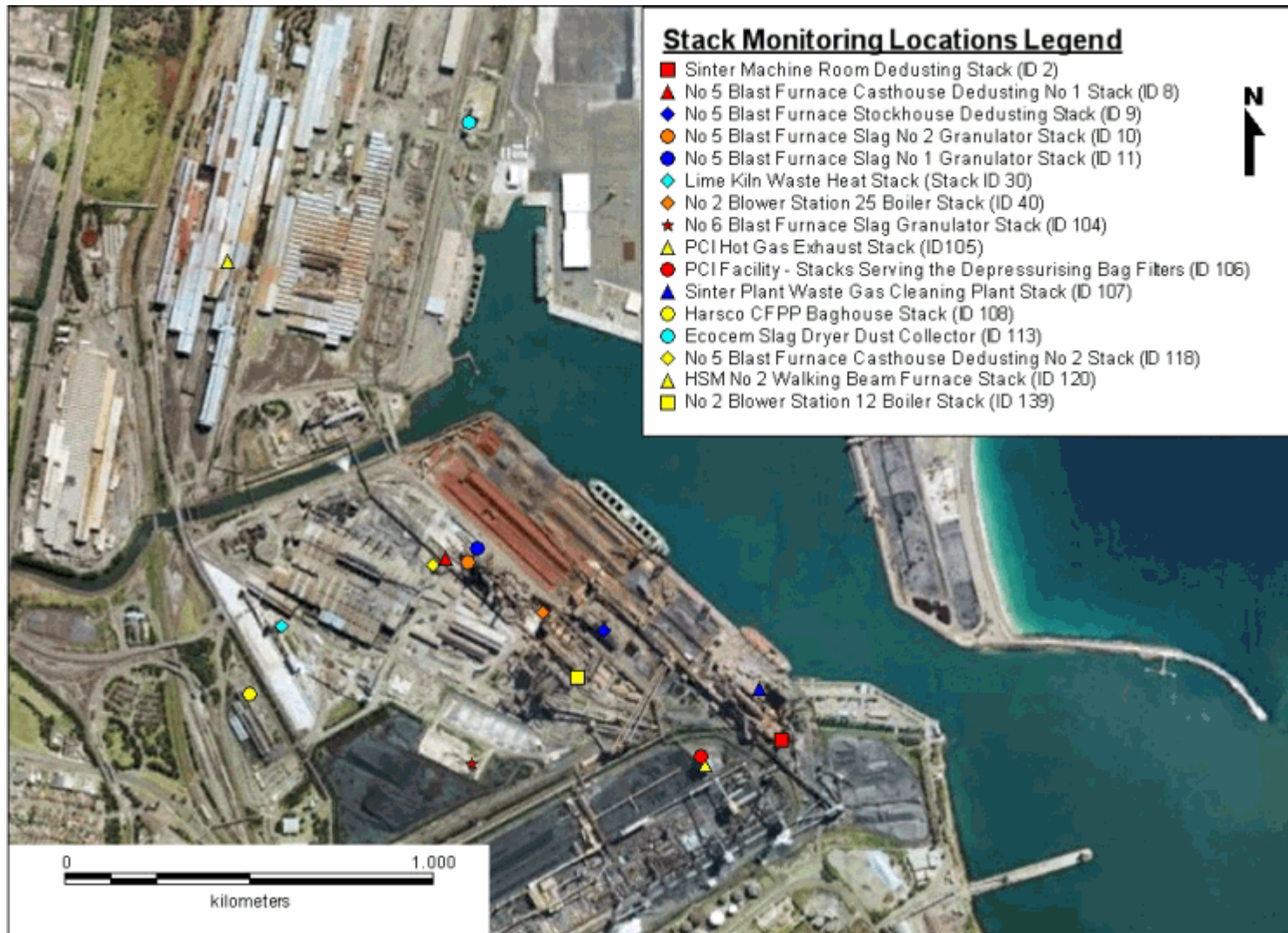
for

1 Nov 2016 to 30 Nov 2016

Monthly (November 2016) Report Published: 1, February, 2017

Stack Air Monitoring Requirements

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





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	6	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.49	0.49	1.20	no
Moisture	Percent	Quarterly	6	4.2	5.6		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	6	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	6	30	35		no
Velocity	Metres per second	Quarterly	6	2.8	3.1		no
Volumetric flowrate	Cubic metres per second	Quarterly	7	30	33		no

Comment:



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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	1.3	2.125	2.10	3
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	1.6	1.4	18.6
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	0.3	4.7	4.0	47.8
Comment:							



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Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.14,O4.15 (Cont.)



O4.14

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:				

O4.15

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	7.6	23.2	17.9	62.9
Benzene	Parts per billion	Every 6 days	5	<0.01	0.1464	0.0250	0.6
Iron	Micrograms per cubic metre	Every 6 days	5	0.25	2.144	1.00	8
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	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	0.61	4.09	0.61	18
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	28	57.2	42.00	130
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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	12.3	35.5	26.7	176.4
Benzene	Parts per billion	Every 6 days	5	0.014	0.0786	0.0870	0.13
Iron	Micrograms per cubic metre	Every 6 days	5	1	1.86	1.80	3.7
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	< 0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	2.8	2.8	2.80	2.8
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	1.15	0.88	2.5
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	36	58.6	53.00	95
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.32
Comment:							

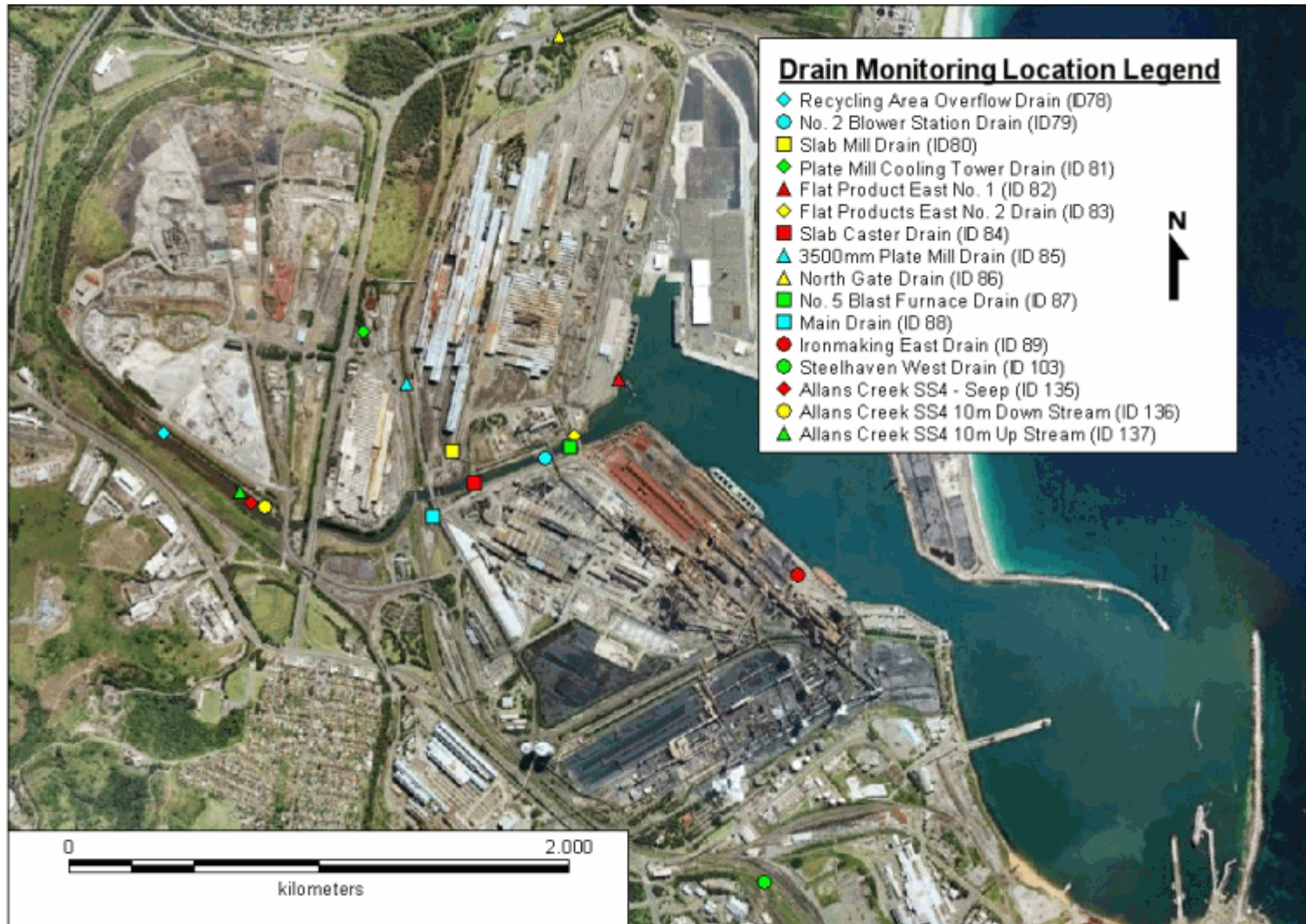


Point 153: Receiver 3 (located west of licensed site)

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	0.68	1.838	1.90	3.6
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	< 0.056
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	36	61.6	60.00	110
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.19
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	3	<0.06	<0.06	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	3	<0.01	<0.01	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	3	<5	<5	20 (50)	no
pH		Every 8 days	3	7.9	7.9	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	3	24	25	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.11	0.18	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	14	24	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	3	<0.05	0.09	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	620377	682035		
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	<0.02	<0.02	0.10 (0.00)	no
pH		6/yr. Min 50 days apart.	1	7.5	7.5	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	564	1967		
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	0	1180		
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	239		
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	7.8	7.9	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	20	22	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4.8	5.6	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	23557	34253		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	3	<0.06	<0.06	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	3	<0.01	<0.01	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	3	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	3	7.9	8	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	3	19	20	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.11	0.28	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	4	19	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1847	2196		
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	5	<0.06	<0.06	7.5 (7.5)	no
Ammonia	Tonnes per day	Every 8 days	5	0.0	0.0	1.200	no
Cyanide	Kilograms per day	Every 8 days	5	0.0	0.0	27.00	no
Cyanide	Milligrams per litre	Every 8 days	5	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	Every 8 days	5	<5	<5	20 (50)	no
Oil and Grease	Tonnes per day	Every 8 days	5	0.0	0.0	2.50	no
pH		Every 8 days	5	7.8	8.1	6.5-9.0 (6.5-9.0)	no
Phenol	Kilograms per day	Every 8 days	5	0.0	0.0	35.00	no
Phenol	Milligrams per litre	Every 8 days	5	<0.2	<0.2	0.45 (0.45)	no
Temperature	Degrees Celcius	Every 8 days	5	19	22	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	4	44	100 (200)	no
Total Suspended Solids	Tonnes per day	Every 8 days	5	0.34	4.54	12.00	no
Total Zinc	Kilograms per day	Every 8 days	5	0.0	0.0	35.00	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	85054	103103		
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	Every 8 days	0			7.0 (7.0)	no
Copper	Milligrams per litre	Every 8 days	0			1.000	no
Cyanide	Milligrams per litre	Every 8 days	0			0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Every 8 days	0			0.5 (0.5)	no
Fluoride	Milligrams per litre	Every 8 days	0			50 (50)	no
pH		Every 8 days	0			6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	0			45 (45)	no
Total Iron	Milligrams per litre	Every 8 days	0			7 (20)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	0			100 (200)	no
Total Zinc	Milligrams per litre	Every 8 days	0			3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
Comment: No overflow in November 2016.							