



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 2021 to 31 Jul 2021

Monthly (July 2021) Report Published: 6, September, 2021

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	7.3	7.3	50.00	no
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	0.2	0.9	0.6	5.8
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	4.5	4.4	20.2
Comment: Elevated results associated with plant shut down and start up.							



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	<0.00015	<0.00016		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	<0.00015	0.0011		no
Carbon Dioxide	Percent	Quarterly in duplicate	13	5.1	6.1		no
Chromium (hexavalent)	Milligrams per cubic metre	Yearly in duplicate	2	0.0014	0.0014		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0035	0.004	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	29	1.32	1.33		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	1.7	2.1		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	30	30		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	280	340		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.043	0.05		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0065	0.047		no
Moisture	Percent	Quarterly in duplicate	29	9.6	10		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	29	29.6	29.7		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00053	0.00068		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	13	247	298	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	13	16	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	4	1.9	4	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	4.2	7.1	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	9	209	302	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	29	132	135		no
Velocity	Metres per second	Quarterly in duplicate	29	14	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	29	2.9	3.2		no
Comment:							



Point 120:

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	1	<0.00042	<0.00042	0.10000	no
Carbon Dioxide	Percent	Yearly	9	3.8	5.1		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	9	<3	18	400.00	no
Dry Gas Density	Kilograms per cubic metre	Yearly	16	1.3	1.32		no
Mercury (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.001	0.001	0.10000	no
Moisture	Percent	Yearly	16	10	14		no
Molecular Weight of stack gases	grams per gram mole	Yearly	16	29.2	29.6		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	9	541	604	650.00	no
Oxygen (O2)	Percent	Yearly	9	12	12		no
Solid Particles (7% Oxygen corrected)	Milligrams per cubic metre	Yearly	2	16	73	30.00	yes
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	9	743	817	1,250.00	no
Temperature	Degrees Celcius	Yearly	16	198	252		no
Type 1 and 2 substances in aggregate (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.12	0.12	1.0000	no
Velocity	Metres per second	Yearly	16	14	20		no
Volumetric flowrate	Cubic metres per second	Yearly	16	51	74		no
Comment:							



Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.12, O4.13 and O4.14

O4.12

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

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
	Parts per billion	Every 6 days		0.02	0.033	0.023	0.061
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	3	11	10	30
Iron	Micrograms per cubic metre	Every 6 days	5	0.15	1.20	1.20	3.0
Lead	Micrograms per cubic metre	Every 6 days	5	<0.037	<0.037	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.24	0.24	0.24	0.24
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.41	0.844	0.61	1.8
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	5	19	18	40
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.077	0.077	0.08	0.077
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.074	0.085	0.06	0.16
Comment:							



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

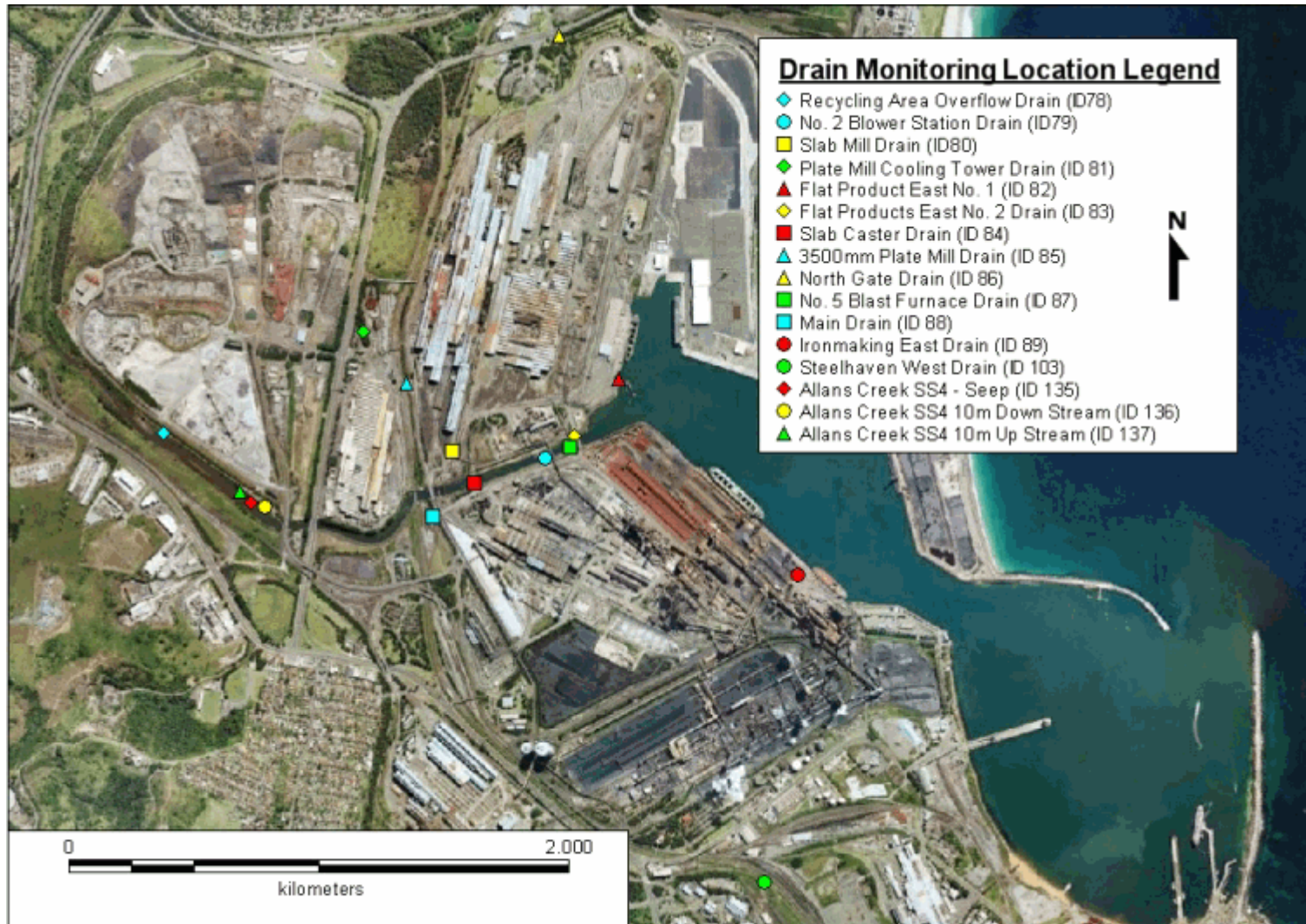
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
5	Parts per billion	Every 6 days		0.022	0.044	0.037	0.099
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6	15	15	31
Iron	Micrograms per cubic metre	Every 6 days	5	0.45	1.32	1.60	2.0
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	0.84	0.84	0.84	0.84
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.59	1.08	1.00	2.1
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	8.1	24	31	35
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.18	0.18	0.18	0.18
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
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	0.52	2.58	2.70	4.1
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	12	32	42	53
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.25	0.25	0.25	0.25
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.16
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	15	<0.06	0.36	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	16	<0.02	0.030	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	14	<0.01	0.05	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	14	<5	<5	20 (50)	no
pH		Every 8 days	14	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	14	22.2	25.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	14	0.07	0.29	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	14	<3	6	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	14	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	637767	679501		
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	410	2841		
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	123	1165		
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	161		
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	8.2	8.2	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	17.2	18.2	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	3	6	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	36393	37181		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	8.1	8.2	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	16.2	17.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.13	0.28	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	3	7	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1964	2066		
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	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	8.1	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	14.2	15.2	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	16	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	22117	27925		
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:							