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**BLUESCOPE STEEL (AIS) PTY. LTD.**  
**Port Kembla Steelworks**  
**Licence 6092**

[Link to Environment Protection Licence EPL6092](#)

**LICENCE MONITORING DATA**  
**MONTHLY SUMMARY REPORT**

for

**1 May 2014 to 31 May 2014**

Monthly (May 2014) Report Published: 17, July, 2014

## Stack Air Monitoring Requirements

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



**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	<0.00020	<0.00024	0.10000	no
Carbon Dioxide	Percent	Yearly	4	15.000	16.000		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	<3.00	7.00	400.00	no
Dry Gas Density	Kilograms per cubic metre	Yearly	12	1.36	1.39		no
Mercury (7% Oxygen correction)	Milligrams per cubic metre	Yearly	2	0.00021	0.00067	0.10000	no
Moisture	Percent	Yearly	12	9.00	12.00		no
Molecular Weight of stack gases	grams per gram mole	Yearly	12	30.50	31.10		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	128.00	137.00	600.00	no
Oxygen (O2)	Percent	Yearly	4	7.20	7.50		no
Solid Particles (7% Oxygen corrected)	Milligrams per cubic metre	Yearly	3	3.30	11.00	30.00	no
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	243.00	267.00	1,250.00	no
Temperature	Degrees Celcius	Yearly	12	144.00	166.00		no
Type 1 and 2 substances in aggregate (7% Oxygen correction)	Milligrams per cubic metre	Yearly	2	0.0150	0.0260	1.0000	no
Velocity	Metres per second	Yearly	12	6.80	11.00		no
Volumetric flowrate	Cubic metres per second	Yearly	12	43.00	68.00		no

**Comment:**



**Point 105:**

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 (3% Oxygen correction)	Milligrams per cubic metre	Yearly	1	13.00	13.00	20.00	no
<b>Comment:</b>							

**Point 106:**

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	1.20	1.20	20.00	no
<b>Comment:</b>							

**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) *
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	1	0.007000	0.007000	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	8	1.33	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	<1.00	1.80		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	19.00	20.00		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	1.9000	2.2000		no
Moisture	Percent	Quarterly in duplicate	8	9.50	11.00		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	8	29.80	29.90		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	4.10	4.50	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO <sub>3</sub> )	Milligrams per cubic metre	Quarterly in duplicate	1	1.60	1.60	100.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	8	143.00	145.00		no
Velocity	Metres per second	Quarterly in duplicate	8	15.00	16.00		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	8	280.00	320.00		no
<b>Comment:</b>							

**Point 108:**

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	Milligrams per cubic metre	Yearly	2	<0.00043	<0.00044	1.00000	no
Dry Gas Density	Kilograms per cubic metre	Yearly	2	1.29	1.29		no
Mercury	Milligrams per cubic metre	Yearly	2	<0.000430	<0.000440	1.000000	no
Moisture	Percent	Yearly	2	2.80	2.90		no
Solid Particles	Milligrams per cubic metre	Yearly	2	1.90	7.70	20.00	no
Temperature	Degrees Celcius	Yearly	2	40.00	46.00		no
Type 1 and Type 2 substances in aggregate	Milligrams per cubic metre	Yearly	2	0.1300	0.2400	5.0000	no
Velocity	Metres per second	Yearly	2	7.80	11.00		no
Volumetric flowrate	Cubic metres per second	Yearly	2	5.40	7.50		no
<b>Comment:</b>							

**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	9	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	1.60	1.60	1.20	yes
Moisture	Percent	Quarterly	9	6.60	12.00		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	9	28.90	28.90		no
Temperature	Degrees Celcius	Quarterly	9	38.00	49.00		no
Velocity	Metres per second	Quarterly	9	2.40	3.30		no
Volumetric flowrate	Cubic metres per second	Quarterly	10	25.00	32.00		no
<b>Comment:</b>							



**O4.12:**

**Meter 1**

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Opacity	%	Daily	Continuous	1	7.4	7	85
<b>Comment:</b>							

**Meter 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	%	Daily	Continuous	1	19.6	16	91
<b>Comment:</b>							



**O4.13**

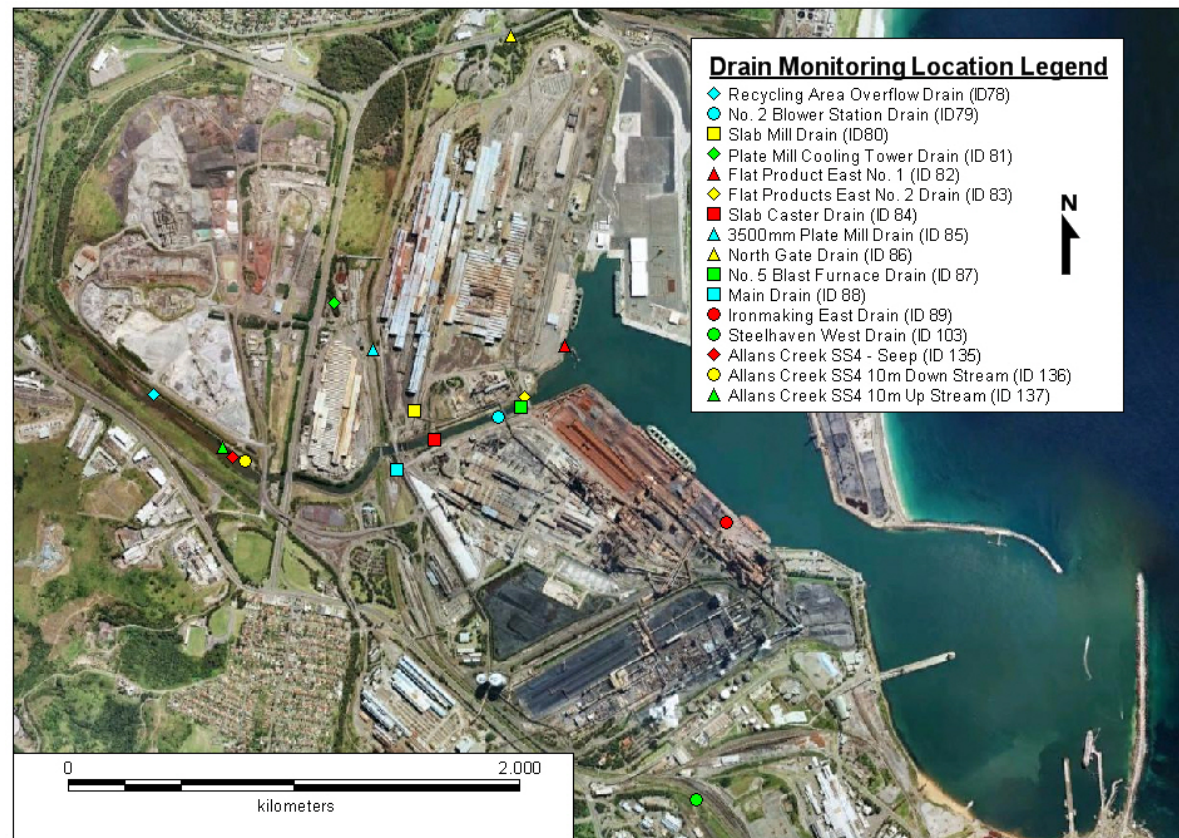
Pollutant	Monitoring frequency required by licence	No of significant emissions measured during month	100 Percentile Limit	Exceedance (yes/no) *
Emission - KISH Tipping DER 5	Monthly	0	4	no
<b>Comment:</b>				

**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
<b>Comment:</b>				

## 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
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	0.00	0.00	0.00	0.00

**Comment: \* No Flow in this drain in May.**

**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	0.4500	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.0050	0.0060	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	24.90	30.10	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.1270	0.2920	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4.80	21.00	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	502,080.00	675,988.00		

**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	1,901.00	2,510.00		
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) *
Cyanide	Milligrams per litre	Quarterly grab* sample. Min 80 days apart	0	*	*	0.30 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0.00	240.00		
Comment: *****Bc'Zck `Uhi]a YcZgUa d`]b[ "							

**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	0.00	11.00		
Comment: *****Bc'Zck `Uhi]a YcZgUa d`]b[ "							

**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	8.20	8.20	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	21.90	24.10	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	11.00	12.00	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	27,873.00	30,450.00		no
<b>Comment:</b>							

**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	<0.0050	<0.0050	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	4	<0.0100	0.0330	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	4	<0.020	0.040	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	4	<0.10	<0.10	1.5 (1.5)	no
pH		Every 8 days	4	8.20	8.20	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	21.90	23.10	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.0900	0.2980	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	6.80	23.00	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	852.00	2,385.00		
<b>Comment:</b>							

**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	<0.0600	7.5 (7.5)	no
Ammonia	Tonnes per day	Every 8 days	4	0.004	0.005	1.200	no
Cyanide	Kilograms per day	Every 8 days	4	0.31	0.41	27.00	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.0050	<0.0050	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	0.31	0.41	2.50	no
pH		Every 8 days	4	8.20	8.20	6.5-9.0 (6.5-9.0)	no
Phenol	Kilograms per day	Every 8 days	4	0.31	3.73	35.00	no
Phenol	Milligrams per litre	Every 8 days	4	<0.0050	0.0230	0.45 (0.45)	no
Temperature	Degrees Celcius	Every 8 days	4	24.90	26.90	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	6.40	26.00	100 (200)	no
Total Suspended Solids	Tonnes per day	Every 8 days	4	0.79	4.22	12.00	no
Total Zinc	Kilograms per day	Every 8 days	4	3.87	7.16	35.00	no
Total Zinc	Milligrams per litre	Every 8 days	4	<0.0500	0.0580	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	123,366.00	159,597.00		
<b>Comment:</b>							

**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	6	0.2300	5.3000	7.0 (7.0)	no
Cyanide	Milligrams per litre	Every 8 days	6	<0.0050	0.8700	0.20 (0.20)	yes*
Filtrable Iron	Milligrams per litre	Every 8 days	6	0.0140	0.0850	0.5 (0.5)	no
Fluoride	Milligrams per litre	Every 8 days	6	1.00	1.10	50 (50)	no
pH		Every 8 days	6	8.10	8.30	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	6	21.90	23.10	45 (45)	no
Total Iron	Milligrams per litre	Every 8 days	6	0.1230	0.5060	7 (20)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	6	5.60	15.00	100 (200)	no
Total Zinc	Milligrams per litre	Every 8 days	6	<0.0500	<0.0500	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	12,383.00	17,507.00		
<b>Comment: * One sample above the licence limit.</b>							