



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
ANNUAL SUMMARY REPORT

for period

1 Jul 2016 to 30 Jun 2017

Annual (Jul 2016 - Jun 2017) Report Published: 14, September, 2017

Stack Air Monitoring Requirements

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





Point 107:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Mean Value | Median Value | Max. Value |
|----------------------------|------------------|--|-----------------------------------|------------|------------|--------------|------------|
| Benzene | Tonnes/annum | Annually | 4 | 1.7 | 1.9 | 1.9 | 2.1 |
| Benzo (a) pyrene | Tonnes/annum | Annually | 2 | 0.000076 | 0.000082 | 0.000082 | 0.000088 |
| Coarse Particulates | Tonnes/annum | Annually | 25 | 13.3 | 40.7 | 40.7 | 85.6 |
| Fine Particulates | Tonnes/annum | Annually | 8 | 28.2 | 38.9 | 38.9 | 51.3 |
| Nitrogen Oxides | Tonnes/annum | Annually | 115 | 1,499 | 2,660 | 2,660 | 3,321 |
| Sulphur Dioxide - UV | Tonnes/annum | Annually | 94 | 324 | 611 | 611 | 2,180 |
| Volatile Organic Compounds | Tonnes/annum | Annually | 4 | 0.44 | 0.58 | 0.58 | 0.83 |
| Comment: | | | | | | | |



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Ambient Air Monitoring Requirements

EPL6092 Condition O4.14

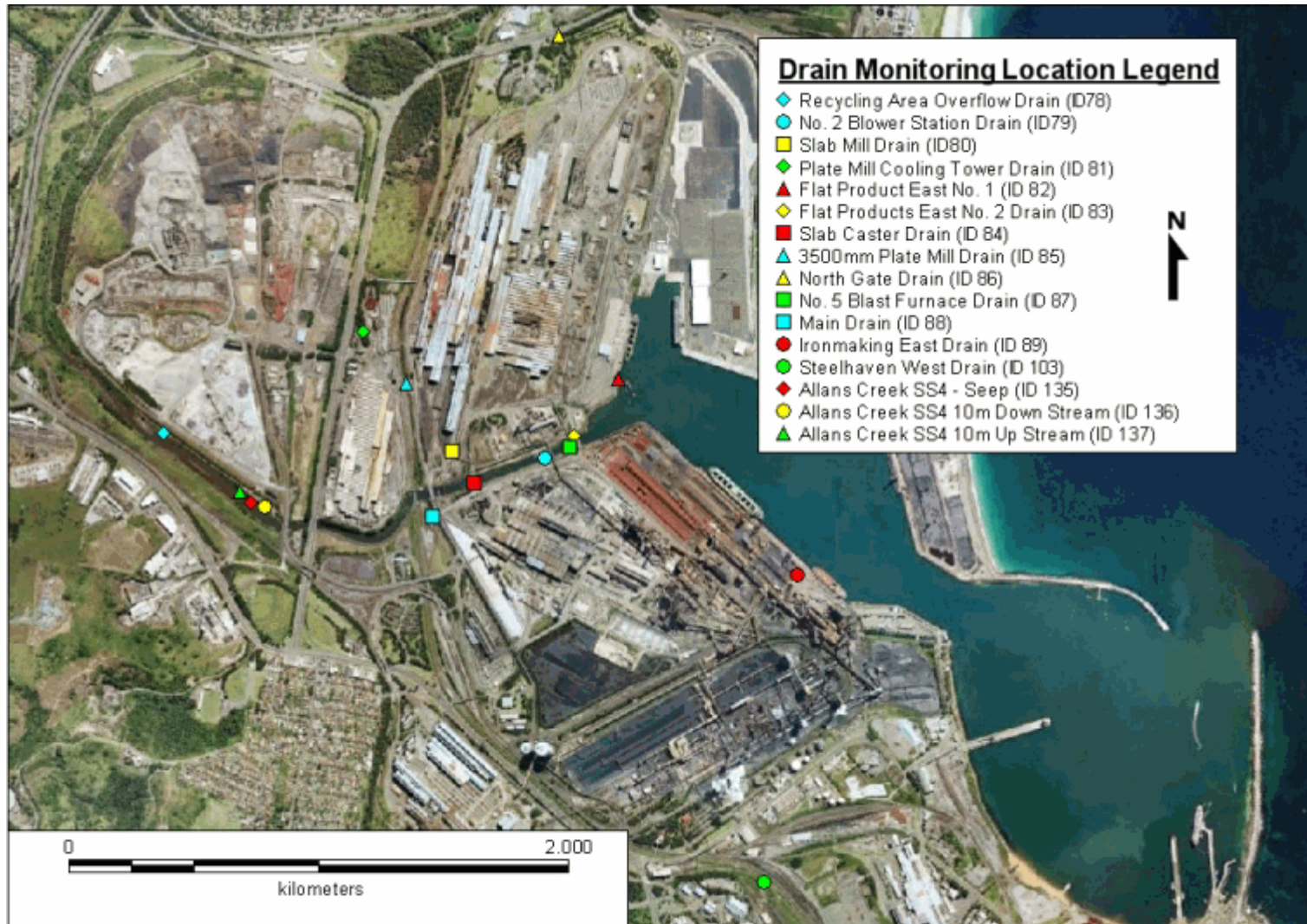


O4.14

| Pollutant | Monitoring frequency required by licence | No. of significant emissions measured during year | 100 Percentile Limit | Exceedance (yes/no) * |
|-------------------------------|---|--|-----------------------------|------------------------------|
| Emission - KISH Tipping DER 5 | Annually | 0 | 30 | no |
| Comment: | | | | |

Water and/or Land Monitoring Requirements

EPL6092 Condition M2.5/M2.6/M8.1/M8.3





Point 79:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Max. Value | 90 Percentile Value | 90 Percentile Limit | Exceedance (yes/no) * |
|------------------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Ammonia | Milligrams per litre | Every 8 days | 46.00 | <0.06 | <0.06 | <0.06 | 1.5000 | no |
| Cyanide | Milligrams per litre | Every 8 days | 46.00 | <0.02 | <0.02 | <0.02 | 0.0500 | no |
| Filtrable Iron | Milligrams per litre | Every 8 days | 46.00 | <0.01 | 0.1620 | 0.0200 | 0.1000 | no |
| Oil and Grease | Milligrams per litre | Every 8 days | 46.00 | <5 | <5 | <5 | 10.0000 | no |
| Temperature | Degrees Celcius | Every 8 days | 46.00 | 18.00 | 31.00 | 28.00 | 35.00 | no |
| Total Iron | Milligrams per litre | Every 8 days | 46.00 | 0.0600 | 0.4620 | 0.3430 | 1.0000 | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 46.00 | <3 | 29.00 | 20.00 | 30.00 | no |
| Total Zinc | Milligrams per litre | Every 8 days | 46.00 | <0.05 | 0.0900 | <0.05 | 1.0000 | no |
| Comment: | | | | | | | | |



Point 85:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Max. Value | 90 Percentile Value | 90 Percentile Limit | Exceedance (yes/no) * |
|------------------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Oil and Grease | Milligrams per litre | 24/year. Min 15 days apart | 25.00 | <5 | <5 | <5 | 10.0000 | no |
| Temperature | Degrees Celcius | 24/year. Min 15 days apart | 25.00 | 15.00 | 26.00 | 25.00 | 30.00 | no |
| Total Suspended Solids | Milligrams per litre | 24/year. Min 15 days apart | 25.00 | <3 | 20.00 | 18.00 | 30.00 | no |

Comment:



Point 87:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Max. Value | 50 Percentile Value | 50 Percentile Limit | Exceedance (yes/no) * |
|-----------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Lead | Milligrams per litre | Every 8 days | 46 | <0.02 | 0.090 | <0.02 | 0.050 | no |
| Comment: | | | | | | | | |



Point 87:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Max. Value | 90 Percentile Value | 90 Percentile Limit | Exceedance (yes/no) * |
|------------------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Ammonia | Milligrams per litre | Every 8 days | 46.00 | <0.06 | 0.2600 | <0.06 | 7.5000 | no |
| Cyanide | Milligrams per litre | Every 8 days | 46.00 | <0.02 | <0.02 | <0.02 | 0.2000 | no |
| Filtrable Iron | Milligrams per litre | Every 8 days | 46.00 | <0.01 | 0.0300 | 0.0075 | 0.7000 | no |
| Lead | Milligrams per litre | Every 8 days | 46.00 | <0.02 | 0.090 | <0.02 | 0.300 | no |
| Temperature | Degrees Celcius | Every 8 days | 46.00 | 16.00 | 27.00 | 23.70 | 35.00 | no |
| Total Iron | Milligrams per litre | Every 8 days | 46.00 | 0.0900 | 14.0000 | 2.4700 | 3.0000 | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 47.00 | <3 | 139.00 | 26.80 | 30.00 | no |

Comment:



Point 88:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Max. Value | 50 Percentile Value | 50 Percentile Limit | Exceedance (yes/no) * |
|------------------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Total Suspended Solids | Milligrams per litre | 24 representative grab samples per year | 49 | <3 | 49.00 | 12.00 | 45.00 | no |

Comment:



Point 88:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Max. Value | 90 Percentile Value | 90 Percentile Limit | Exceedance (yes/no) * |
|------------------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Ammonia | Milligrams per litre | 24 Grab samples per year | 49.00 | <0.06 | 1.2000 | <0.06 | 4.0000 | no |
| Cyanide | Milligrams per litre | 24 Grab samples per year | 49.00 | <0.02 | <0.02 | <0.02 | 0.1000 | no |
| Oil and Grease | Milligrams per litre | 24 Grab samples per year | 49.00 | <5 | <5 | <5 | 10.0000 | no |
| Temperature | Degrees Celcius | 24 Grab samples per year | 49.00 | 16.00 | 25.00 | 23.18 | 35.00 | no |
| Total Suspended Solids | Milligrams per litre | 24 Grab samples per year | 49.00 | <3 | 49.00 | 28.20 | 70.00 | no |
| Total Zinc | Milligrams per litre | 24 Grab samples per year | 49.00 | <0.05 | 0.0900 | 0.0500 | 1.0000 | no |
| Comment: | | | | | | | | |



Point 89:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Load |
|------------------------|------------------|--|-----------------------------------|------|
| Zinc | Tonnes/Annum | Annually | 1 | 0.06 |
| Total Suspended Solids | Tonnes/Annum | Annually | 1 | 16.1 |

Point 89:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Max. Value | 50 Percentile Value | 50 Percentile Limit | Exceedance (yes/no) * |
|-----------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Ammonia | Milligrams per litre | Daily during any discharge | 26 | <0.06 | 1.6000 | <0.06 | 3.0000 | no |
| Cadmium | Milligrams per litre | Daily during any discharge | 19 | <0.005 | <0.005 | <0.005 | 0.01 | no |
| Cyanide | Milligrams per litre | Daily during any discharge | 26 | <0.02 | 0.0220 | <0.02 | 0.0800 | no |
| Lead | Milligrams per litre | Daily during any discharge | 19 | <0.02 | 0.040 | <0.02 | 0.050 | no |

Comment:



Point 89:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during year | Min. Value | Max. Value | 90 Percentile Value | 90 Percentile Limit | Exceedance (yes/no) * |
|----------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Ammonia | Milligrams per litre | Daily during any discharge | 26.00 | <0.06 | 1.6000 | 1.0650 | 5.0000 | no |
| Cadmium | Milligrams per litre | Daily during any discharge | 19.00 | <0.005 | <0.005 | <0.005 | 0.02 | no |
| Cyanide | Milligrams per litre | Daily during any discharge | 26.00 | <0.02 | 0.0220 | <0.02 | 0.1500 | no |
| Filtrable Iron | Milligrams per litre | Daily during any discharge | 26.00 | <0.01 | 0.1400 | 0.0600 | 0.1000 | no |
| Lead | Milligrams per litre | Daily during any discharge | 19.00 | <0.02 | 0.040 | 0.032 | 0.100 | no |
| Oil and Grease | Milligrams per litre | Daily during any discharge | 20.00 | <5 | 10.0000 | <5 | 10.0000 | no |
| Temperature | Degrees Celcius | Daily during any discharge | 26.00 | 17.00 | 29.00 | 28.00 | 40.00 | no |
| Total Iron | Milligrams per litre | Daily during any discharge | 26.00 | 0.1900 | 50.0000 | 1.14 | 3.0000 | no |
| Total Zinc | Milligrams per litre | Daily during any discharge | 26.00 | <0.05 | 0.6400 | 0.3500 | 1.0000 | no |

Comment: