



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](#)

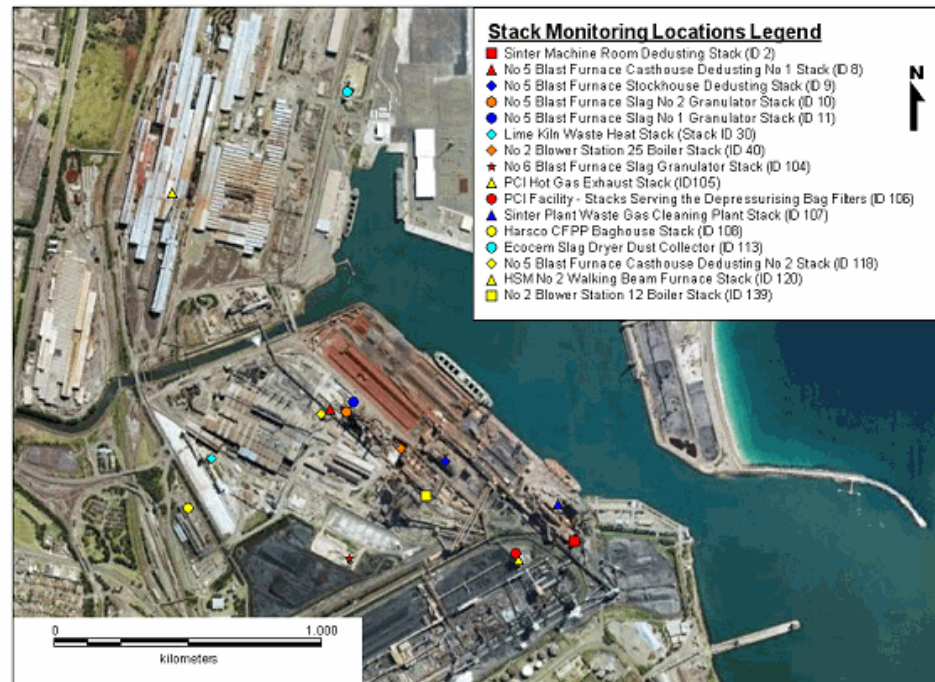
**LICENCE MONITORING DATA**  
**ANNUAL SUMMARY REPORT**

for period

**1 Apr 2012 to 31 Mar 2013**

## Stack Air Monitoring Requirements

EPL6092 Condition 8.2



## M8.2

### Point 107:

| Pollutant                  | Units of measure | Monitoring frequency required by licence | No. of times measured during year | Annual Load |
|----------------------------|------------------|--|-----------------------------------|-------------|
| Benzene                    | Tonnes/annum     | annually                                 | 1                                 | 4.42        |
| Benzo(a)pyrene             | Tonnes/annum     | annually                                 | 1                                 | 0.00025     |
| Coarse Particulates        | Tonnes/annum     | annually                                 | 1                                 | 39.97       |
| Fine Particulates          | Tonnes/annum     | annually                                 | 1                                 | 24.37       |
| Nitrogen oxides            | Tonnes/annum     | annually                                 | 1                                 | 2,602       |
| Sulphur oxides             | Tonnes/annum     | annually                                 | 1                                 | 492.9       |
| Volatile organic compounds | Tonnes/annum     | annually                                 | 1                                 | 1.17        |
| <b>Comment:</b>            |                  |  |                                   |             |



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## **Ambient Air Monitoring Requirements**

EPL6092 Condition O4.13

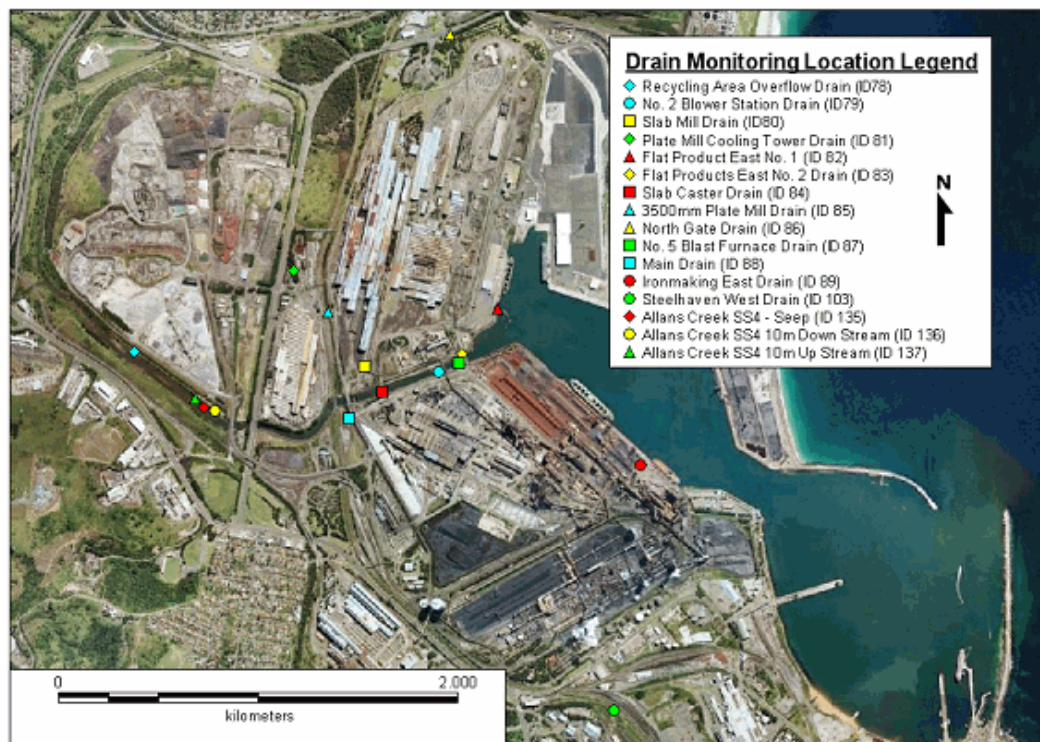


**O4.13**

| 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                    |
| <b>Comment:</b>               |  |   |                      |                       |

## Water and/or Land Monitoring Requirements

EPL6092 Condition M2.4/M2.5/M8.1/8.3



### M8.3

#### Point 89:

| Pollutant              | Units of measure | Monitoring frequency required by licence | No. of times measured during year | Annual Load |
|------------------------|------------------|--|-----------------------------------|-------------|
| Arsenic                | Tonnes/annum     | annually                                 | 1                                 | 0           |
| Cadmium                | Tonnes/annum     | annually                                 | 1                                 | 0           |
| Chromium (Total)       | Tonnes/annum     | annually                                 | 1                                 | 0           |
| Copper                 | Tonnes/annum     | annually                                 | 1                                 | 0.00049     |
| Lead                   | Tonnes/annum     | annually                                 | 1                                 | 0.00065     |
| Mercury                | Tonnes/annum     | annually                                 | 1                                 | 0.00001     |
| Oil and grease         | Tonnes/annum     | annually                                 | 1                                 | 0           |
| Selenium               | Tonnes/annum     | annually                                 | 1                                 | 0           |
| Total suspended solids | Tonnes/annum     | annually                                 | 1                                 | 9.9         |
| Total zinc             | Tonnes/annum     | annually                                 | 1                                 | 0.032       |
| <b>Comment:</b>        |                  |  |                                   |             |



**Point 79:**

| 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) * |
|-----------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| BOD             | Milligrams per litre | Every 8 days                             | 46                                | <2         | <2         | <2                  | 5.00                | no                    |
| Cadmium         | Milligrams per litre | Every 8 days                             | 46                                | <0.005     | <0.005     | <0.005              | 0.010               | no                    |
| <b>Comment:</b> |                      |  |                                   |            |            |                     |                     |                       |



**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      | 0.3600     | 0.1950              | 1.5000              | no                    |
| BOD                    | Milligrams per litre | Every 8 days                             | 46.00                             | <2         | <2         | <2                  | 10.00               | no                    |
| Cadmium                | Milligrams per litre | Every 8 days                             | 46.00                             | <0.005     | <0.005     | <0.005              | 0.020               | no                    |
| Cyanide                | Milligrams per litre | Every 4 days                             | 91.00                             | <0.005     | 0.0290     | 0.0140              | 0.0500              | no                    |
| Filtrable Iron         | Milligrams per litre | Every 8 days                             | 46.00                             | <0.01      | 0.0220     | 0.0175              | 0.1000              | no                    |
| Lead                   | Milligrams per litre | Every 8 days                             | 46.00                             | <0.02      | 0.030      | <0.02               | 0.050               | 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                             | 16.20      | 32.00      | 30.60               | 35.00               | no                    |
| Total Iron             | Milligrams per litre | Every 8 days                             | 46.00                             | <0.005     | 2.8500     | 0.2800              | 1.0000              | no                    |
| Total Suspended Solids | Milligrams per litre | Every 8 days                             | 46.00                             | <2         | 29.00      | 17.00               | 30.00               | no                    |
| Total Zinc             | Milligrams per litre | Every 8 days                             | 46.00                             | <0.05      | 0.0600     | <0.05               | 1.0000              | no                    |

**Comment:**

**Point 80:**

| 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) * |
|------------------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Cyanide                | Milligrams per litre | 6/yr. Min 50 days apart                  | 6.00                              | <0.005     | 0.0360     | 0.0325              | 0.0500              | no                    |
| Total Suspended Solids | Milligrams per litre | 6/yr. Min 50 days apart                  | 6.00                              | <2         | 6.80       | 4.40                | 30.00               | no                    |

**Comment:**

**Point 82:**

| 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) * |
|-----------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Cyanide   | Milligrams per litre | Quarterly grab sample. Min 80 days apart | 2.00*                             | <0.005     | 0.0230     | 0.0210              | 0.0500              | no                    |

**Comment: \*No flow at time of sampling**

**Point 83:**

| 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) * |
|-----------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Cyanide   | Milligrams per litre | Quarterly grab sample. Min 80 days apart | 1.00*                             | 0.0070     | 0.0070     | 0.0070              | 0.0500              | no                    |

**Comment:\*No flow at time of sampling**



**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               | 23.00                             | <5         | <5         | <5                  | 10.0000             | no                    |
| Temperature            | Degrees Celcius      | 24/year. Min 15 days apart               | 23.00                             | 17.00      | 27.00      | 26.16               | 30.00               | no                    |
| Total Suspended Solids | Milligrams per litre | 24/year. Min 15 days apart               | 23.00                             | <2         | 18.00      | 12.80               | 30.00               | no                    |
| <b>Comment:</b>        |                      |  |                                   |            |            |                     |                     |                       |



**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                             | 47                                | <0.02      | 0.046      | <0.02               | 0.050               | no                    |
| <b>Comment:</b> |                      |  |                                   |            |            |                     |                     |                       |

**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                             | 47.00                             | <0.06      | 2.8800     | 0.9200              | 7.5000              | no                    |
| Cadmium                | Milligrams per litre | Every 8 days                             | 47.00                             | <0.005     | <0.005     | <0.005              | 0.100               | no                    |
| Chromium (Total)       | Milligrams per litre | Every 8 days                             | 47.00                             | <0.01      | 0.033      | <0.01               | 0.200               | no                    |
| Cyanide                | Milligrams per litre | Every 8 days                             | 47.00                             | <0.005     | 0.0160     | 0.0128              | 0.2000              | no                    |
| Filtrable Iron         | Milligrams per litre | Every 8 days                             | 47.00                             | <0.01      | 0.0400     | 0.0200              | 0.7000              | no                    |
| Lead                   | Milligrams per litre | Every 8 days                             | 47.00                             | <0.02      | 0.046      | <0.02               | 0.300               | no                    |
| Oil and Grease         | Milligrams per litre | Every 8 days                             | 47.00                             | <5         | <5         | <5                  | 10.0000             | no                    |
| Temperature            | Degrees Celcius      | Every 8 days                             | 47.00                             | 12.00      | 25.20      | 25.00               | 35.00               | no                    |
| Total Iron             | Milligrams per litre | Every 8 days                             | 47.00                             | 0.0770     | 18.9200    | 0.6440              | 3.0000              | no                    |
| Total Suspended Solids | Milligrams per litre | Every 8 days                             | 47.00                             | <2         | 150.00     | 15.00               | 30.00               | no                    |
| <b>Comment:</b>        |                      |  |                                   |            |            |                     |                     |                       |



**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) * |
|------------------------|----------------------|--|-----------------------------------|------------|------------|---------------------|---------------------|-----------------------|
| Cadmium                | Milligrams per litre | Every 8 days                             | 47                                | <0.005     | <0.005     | <0.005              | 0.010               | no                    |
| Total Suspended Solids | Milligrams per litre | Every 4 days                             | 92                                | <2         | 28.00      | 6.00                | 45.00               | no                    |
| <b>Comment:</b>        |                      |  |                                   |            |            |                     |                     |                       |

**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 | Every 4 days                             | 92.00                             | <0.06      | 1.1200     | <0.06               | 4.0000              | no                    |
| Cadmium                | Milligrams per litre | Every 8 days                             | 47.00                             | <0.005     | <0.005     | <0.005              | 0.020               | no                    |
| Cyanide                | Milligrams per litre | Every 4 days                             | 92.00                             | <0.005     | 0.0220     | 0.0070              | 0.1000              | no                    |
| Lead                   | Milligrams per litre | Every 8 days                             | 47.00                             | <0.02      | 0.020      | <0.02               | 0.050               | no                    |
| Oil and Grease         | Milligrams per litre | Every 8 days                             | 47.00                             | <5         | 6.0000     | <5                  | 10.0000             | no                    |
| Temperature            | Degrees Celcius      | Every 8 days                             | 47.00                             | 14.00      | 33.20      | 31.00               | 35.00               | no                    |
| Total Suspended Solids | Milligrams per litre | Every 4 days                             | 92.00                             | <2         | 28.00      | 14.90               | 70.00               | no                    |
| Total Zinc             | Milligrams per litre | Every 8 days                             | 47.00                             | <0.05      | 0.0500     | <0.05               | 1.0000              | no                    |
| <b>Comment:</b>        |                      |  |                                   |            |            |                     |                     |                       |

**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 | Every 4 days                             | 92                                | <0.06      | 5.4900     | 0.3900              | 3.0000              | no                    |
| Cadmium         | Milligrams per litre | Every 8 days                             | 47                                | <0.005     | <0.005     | <0.005              | 0.010               | no                    |
| Cyanide         | Milligrams per litre | Every 4 days                             | 92                                | <0.005     | 0.0390     | 0.0055              | 0.0800              | no                    |
| Lead            | Milligrams per litre | Every 8 days                             | 47                                | <0.02      | 0.040      | <0.02               | 0.050               | no                    |
| <b>Comment:</b> |                      |  |                                   |            |            |                     |                     |                       |



**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 | Every 4 days                             | 92.00                             | <0.06      | 5.4900     | 1.1200              | 5.0000              | no                    |
| Cadmium        | Milligrams per litre | Every 8 days                             | 47.00                             | <0.005     | <0.005     | <0.005              | 0.020               | no                    |
| Cyanide        | Milligrams per litre | Every 4 days                             | 92.00                             | <0.005     | 0.0390     | 0.0170              | 0.1500              | no                    |
| Filtrable Iron | Milligrams per litre | Every 8 days                             | 47.00                             | <0.01      | 0.0760     | 0.0472              | 0.1000              | no                    |
| Lead           | Milligrams per litre | Every 8 days                             | 47.00                             | <0.02      | 0.040      | <0.02               | 0.100               | no                    |
| Oil and Grease | Milligrams per litre | Every 8 days                             | 47.00                             | <5         | <5         | <5                  | 10.0000             | no                    |
| Temperature    | Degrees Celcius      | Every 8 days                             | 47.00                             | 14.20      | 27.20      | 26.52               | 40.00               | no                    |
| Total Iron     | Milligrams per litre | Every 8 days                             | 47.00                             | 0.0650     | 4.0000     | 1.0800              | 3.0000              | no                    |
| Total Zinc     | Milligrams per litre | Every 8 days                             | 47.00                             | <0.05      | 0.1960     | 0.0628              | 1.0000              | no                    |

**Comment:**