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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 Apr 2021 to 30 Apr 2021

Monthly (April 2021) Report Published: 3, June, 2021

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 month | Min. Value | Max Value | 100 Percentile Limit | Exceedance (yes / no) * |
|--|----------------------------|--|------------------------------------|------------|-----------|----------------------|-------------------------|
| Arsenic | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.00033 | 0.00058 | | no |
| Cadmium | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.00096 | 0.00099 | | no |
| Carbon Dioxide | Percent | Quarterly in duplicate | 5 | 5.8 | 6.2 | | no |
| Dioxins & Furans (15.7% Oxygen correction) | Nanograms per cubic metre | Quarterly in duplicate | 2 | 0.0045 | 0.0059 | 0.300000 | no |
| Dry Gas Density | Kilograms per cubic metre | Quarterly in duplicate | 17 | 1.32 | 1.33 | | no |
| Fine Particulates | Milligrams per cubic metre | Quarterly in duplicate | 2 | 2.4 | 2.4 | | no |
| Hydrogen Chloride | Milligrams per cubic metre | Quarterly in duplicate | 2 | 16 | 17 | | no |
| Hydrogen Fluoride | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.95 | 1 | | no |
| Lead | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.023 | 0.027 | | no |
| Manganese | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.0038 | 0.0076 | | no |
| Moisture | Percent | Quarterly in duplicate | 17 | 9.8 | 13 | | no |
| Molecular Weight of stack gases | grams per gram mole | Quarterly in duplicate | 17 | 29.7 | 29.8 | | no |
| Nickel | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.00035 | 0.00046 | | no |
| Nitrogen Oxides | Milligrams per cubic metre | Quarterly | 5 | 301 | 318 | 2,000.00 | no |
| Oxygen (O2) | Percent | Quarterly in duplicate | 5 | 16 | 16 | | no |
| Solid Particles | Milligrams per cubic metre | Quarterly in duplicate | 2 | 2.9 | 5.3 | 20.00 | no |
| Sulfuric acid mist and sulphur trioxide (as SO3) | Milligrams per cubic metre | Quarterly in duplicate | 2 | 2.2 | 2.5 | 100.00 | no |
| Sulphur Dioxide - UV | Milligrams per cubic metre | Quarterly | 5 | 180 | 301 | 1,000.00 | no |
| Temperature | Degrees Celcius | Quarterly in duplicate | 17 | 135 | 139 | | no |
| Velocity | Metres per second | Quarterly in duplicate | 17 | 16 | 18 | | no |
| Volumetric flowrate | Cubic metres per second | Quarterly in duplicate | 17 | 310 | 350 | | no |
| | | | | | | | |



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 | 0.4 | 3.6 | 3.5 | 7.9 |
| 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 | 0.6 | 5.1 | 5.1 | 29.1 |
| Comment: Elevated results associated with plant shutdown and startup. | | | | | | | |



Ambient Air Monitoring Requirements

EPL6092 Condition M2.2/M2.3/O4.12, O4.13,O4.14 (Cont.)

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 |
|---|----------------------------------|--|------------------------------------|------------|------------|--------------|------------|
| Benzene | Parts per billion | Every 6 days | 4 | 0.013 | 0.0822 | 0.0680 | 0.18 |
| Fine Particulates | Micrograms per cubic metre | Continuous | Continuous | 2 | 15 | 12 | 31 |
| Iron | Micrograms per cubic metre | Every 6 days | 5 | 0.44 | 0.97 | 0.82 | 2.1 |
| Lead | Micrograms per cubic metre | Every 6 days | 5 | <0.055 | <0.055 | 0.03 | <0.055 |
| Particulates - Deposited Matter | Grams per square metre per month | Monthly | 1 | 0.47 | 0.47 | 0.47 | 0.47 |
| Polycyclic aromatic hydrocarbons | Nanograms per cubic metre | 24 hour period every 6 days. | 5 | 0.6 | 0.964 | 0.61 | 2.4 |
| Total suspended particles | Micrograms per cubic metre | Every 6 days | 5 | 23 | 40 | 35 | 82 |
| Type 1 and Type 2 substances in aggregate | Micrograms per cubic metre | Quarterly | 1 | 0.17 | 0.17 | 0.17 | 0.17 |
| Zinc | Micrograms per cubic metre | Every 6 days | 5 | <0.11 | <0.11 | 0.06 | <0.11 |

Comment:

VOC sample from Scouts Hall AQMS on 5/04/2021 was lost during analysis - no Benzene result was reported for this date.



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

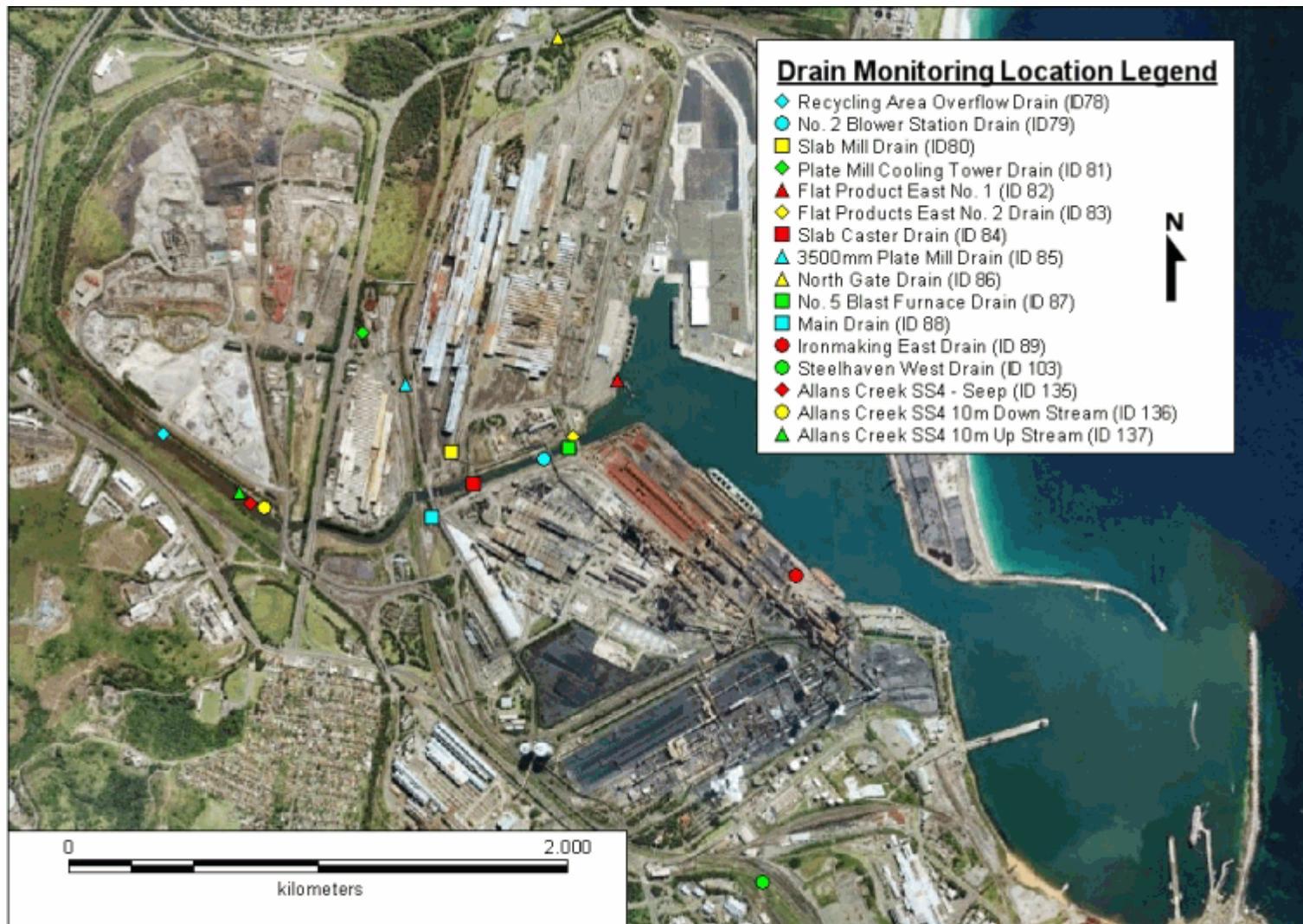
| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Mean Value | Median Value | Max. Value |
|--|----------------------------------|--|------------------------------------|------------|------------|--------------|------------|
| Benzene | Parts per billion | Every 6 days | 3 | 0.086 | 0.097 | 0.086 | 0.12 |
| Fine Particulates | Micrograms per cubic metre | Continuous | Continuous | 10 | 24 | 23 | 45 |
| Iron | Micrograms per cubic metre | Every 6 days | 4 | 1.4 | 2.5 | 2.5 | 3.6 |
| Lead | Micrograms per cubic metre | Every 6 days | 4 | <0.055 | <0.055 | 0.03 | 0.055 |
| Particulates - Deposited Matter | Grams per square metre per month | Monthly | 1 | 0.63 | 0.63 | 0.63 | 0.63 |
| Polycyclic aromatic hydrocarbons | Nanograms per cubic metre | 24 hour period every 6 days. | 4 | 1.4 | 2.1 | 1.8 | 3.5 |
| Total suspended particles | Micrograms per cubic metre | Every 6 days | 4 | 42 | 59 | 58 | 79 |
| Type 1 and Type 2 substances in aggregate | Micrograms per cubic metre | Quarterly | 1 | 0.035 | 0.035 | 0.035 | 0.035 |
| Zinc | Micrograms per cubic metre | Every 6 days | 4 | <0.11 | 0.17 | 0.19 | 0.27 |
| Comment: No results for 11/05/2021 due to loss of power. No Benzene reported on 29/05/2021 due to Breakthrough. | | | | | | | |

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 | 0.32 | 2.08 | 2.00 | 4.6 |
| Lead | Micrograms per cubic metre | Every 6 days | 5 | <0.055 | <0.055 | 0.03 | <0.055 |
| Total suspended particles | Micrograms per cubic metre | Every 6 days | 5 | 9.3 | 45 | 44 | 81 |
| Type 1 and Type 2 substances in aggregate | Micrograms per cubic metre | Quarterly | 1 | 0.16 | 0.16 | 0.16 | 0.16 |
| Zinc | Micrograms per cubic metre | Every 6 days | 5 | <0.11 | <0.11 | 0.06 | 0.12 |
| 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 |
|-----------------|--------------------|--|------------------------------------|------------|------------|--------------|------------|
| Continuous | Kilolitres per day | Daily | | 0 | 12 | 0 | 203 |
| 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 | 6 | <0.06 | 0.28 | 5.0 (5.0) | no |
| Cyanide | Milligrams per litre | Every 8 days | 6 | <0.02 | <0.02 | 0.30 (0.30) | no |
| Filtrable Iron | Milligrams per litre | Every 8 days | 6 | <0.01 | <0.01 | 0.3 (0.3) | no |
| Oil and Grease | Milligrams per litre | Every 8 days | 6 | <5 | <5 | 20 (50) | no |
| pH | | Every 8 days | 6 | 8.1 | 8.2 | 6.5-9.0 (6.5-9.0) | no |
| Temperature | Degrees Celcius | Every 8 days | 6 | 24.2 | 30.2 | 40 (40) | no |
| Total Iron | Milligrams per litre | Every 8 days | 6 | 0.09 | 0.13 | 3 (50) | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 6 | <3 | 16 | 50 (500) | no |
| Total Zinc | Milligrams per litre | Every 8 days | 6 | <0.05 | <0.05 | 3 (3) | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 592896 | 741317 | | |
| 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 | 457 | 2583 | | |
| 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 | 153 | 1939 | | |
| 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 | 331 | | |
| 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 | 8.1 | 8.2 | 6.5-9.0 | no |
| Temperature | Degrees Celcius | 24/year. Min 15 days apart | 2 | 20.2 | 21.2 | 35.00 | no |
| Total Suspended Solids | Milligrams per litre | 24/year. Min 15 days apart | 2 | <3 | 14 | 50.00 | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 33178 | 35426 | | |
| 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 | 6 | <0.06 | <0.06 | 10.0 (10.0) | no |
| Cyanide | Milligrams per litre | Every 8 days | 6 | <0.02 | <0.02 | 0.30 (0.30) | no |
| Filtrable Iron | Milligrams per litre | Every 8 days | 6 | <0.01 | <0.01 | 1.5 (1.5) | no |
| Lead | Milligrams per litre | Every 8 days | 6 | <0.02 | 0.03 | 0.5 (0.5) | no |
| Mercury | Micrograms per litre | Every 8 days | 6 | <0.5 | <0.5 | 1.5 (1.5) | no |
| pH | | Every 8 days | 6 | 8.1 | 8.2 | 6.5-11.0 (6.5-11.0) | no |
| Temperature | Degrees Celcius | Every 8 days | 6 | 18.2 | 22.2 | 40 (40) | no |
| Total Iron | Milligrams per litre | Every 8 days | 6 | 0.08 | 0.3 | 7 (100) | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 6 | <3 | 15 | 70 (500) | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 1770 | 1990 | | |
| 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 | 17.2 | 20.2 | 40 (40) | no |
| Total Suspended Solids | Milligrams per litre | 24/year. Min 15 days apart | 2 | <3 | 8 | 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 | 21903 | 34459 | | |
| 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: | | | | | | | |