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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 Oct 2023 to 31 Oct 2023

Monthly (October 2023) Report Published: 21, December, 2023

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 (ye s / no) * |
|-----------------|----------------------------|--|------------------------------------|------------|-----------|----------------------|--------------------------|
| Solid Particles | Milligrams per cubic metre | Quarterly | 1 | 8.2 | 8.2 | 50.00 | no |
| Comment: | | | | | | | |

Point 9:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 Percentile Limit | Exceedance (ye s / no) * |
|-----------------|----------------------------|--|------------------------------------|------------|-----------|----------------------|--------------------------|
| Solid Particles | Milligrams per cubic metre | Yearly | 1 | 1.3 | 1.3 | 50.00 | no |
| Comment: | | | | | | | |

Point 118:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Max Value | 100 Percentile Limit | Exceedance (ye s / no) * |
|-----------------|----------------------------|--|------------------------------------|------------|-----------|----------------------|--------------------------|
| Solid Particles | Milligrams per cubic metre | Yearly | 1 | 1.9 | 1.9 | 50.00 | no |
| Comment: | | | | | | | |



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 (y e s / no) * |
|--|----------------------------|--|------------------------------------|------------|-----------|----------------------|---------------------------|
| Arsenic | Milligrams per cubic metre | Quarterly in duplicate | 2 | <0.0000031 | 0.00067 | | no |
| Cadmium | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.0022 | 0.0098 | | no |
| Carbon Dioxide | Percent | Quarterly in duplicate | 9 | 5.2 | 6.2 | | no |
| Dioxins & Furans (15.7% Oxygen correction) | Nanograms per cubic metre | Quarterly in duplicate | 2 | 0.024 | 0.027 | 0.300000 | no |
| Dry Gas Density | Kilograms per cubic metre | Quarterly in duplicate | 21 | 1.32 | 1.34 | | no |
| Fine Particulates | Milligrams per cubic metre | Quarterly in duplicate | 2 | 2.6 | 3 | | no |
| Hydrogen Chloride | Milligrams per cubic metre | Quarterly in duplicate | 2 | 27 | 33 | | no |
| Hydrogen Fluoride | Milligrams per cubic metre | Quarterly in duplicate | 2 | 5.2 | 6.3 | | no |
| Lead | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.12 | 0.12 | | no |
| Manganese | Milligrams per cubic metre | Quarterly in duplicate | 2 | 0.0035 | 0.004 | | no |
| Moisture | Percent | Quarterly in duplicate | 21 | 7.6 | 9.6 | | no |
| Molecular Weight of stack gases | grams per gram mole | Quarterly in duplicate | 21 | 29.6 | 30.1 | | no |
| Nickel | Milligrams per cubic metre | Quarterly in duplicate | 2 | <0.000015 | 0.0015 | | no |
| Nitrogen Oxides | Milligrams per cubic metre | Quarterly | 9 | 283 | 333 | 2,000.00 | no |
| Oxygen (O2) | Percent | Quarterly in duplicate | 9 | 16 | 17 | | no |
| Solid Particles | Milligrams per cubic metre | Quarterly in duplicate | 2 | 5.5 | 8.4 | 20.00 | no |
| Sulfuric acid mist and sulphur trioxide (as SO3) | Milligrams per cubic metre | Quarterly in duplicate | 2 | 4.3 | 4.9 | 100.00 | no |
| Sulphur Dioxide - UV | Milligrams per cubic metre | Quarterly | 11 | 105 | 160 | 1,000.00 | no |
| Temperature | Degrees Celcius | Quarterly in duplicate | 21 | 136 | 138 | | no |
| Velocity | Metres per second | Quarterly in duplicate | 21 | 14 | 17 | | no |
| Volumetric flowrate | Cubic metres per second | Quarterly in duplicate | 21 | 290 | 340 | | 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 | 2.5 | 2.4 | 8.2 |
| 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 | 6.2 | 6 | 29.7 |
| Comment: Elevated results associated with plant shutdown and startup. | | | | | | | |



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 |
|---|----------------------------------|--|------------------------------------|------------|------------|--------------|------------|
| Benzene | Parts per billion | Every 6 days | 5 | 0.026 | 0.13 | 0.044 | 0.49 |
| Fine Particulates | Micrograms per cubic metre | Continuous | Continuous | 5 | 22 | 16 | 69 |
| Iron | Micrograms per cubic metre | Every 6 days | 5 | 0.83 | 2.806 | 2.00 | 7.9 |
| 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 | 1.6 | 1.6 | 1.60 | 1.6 |
| Polycyclic aromatic hydrocarbons | Nanograms per cubic metre | 24 hour period every 6 days. | 5 | 0.59 | 2.1 | 0.84 | 7.8 |
| Total suspended particles | Micrograms per cubic metre | Every 6 days | 5 | 13 | 43 | 24 | 110 |
| Type 1 and Type 2 substances in aggregate | Micrograms per cubic metre | Quarterly | 2 | 0.042 | 0.048 | 0.05 | 0.053 |
| Zinc | Micrograms per cubic metre | Every 6 days | 5 | <0.11 | <0.11 | 0.06 | 0.31 |
| 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 |
|---|----------------------------------|--|------------------------------------|------------|------------|--------------|------------|
| Benzene | Parts per billion | Every 6 days | 5 | 0.013 | 0.048 | 0.053 | 0.068 |
| Fine Particulates | Micrograms per cubic metre | Continuous | Continuous | 8 | 23 | 19 | 49 |
| Iron | Micrograms per cubic metre | Every 6 days | 5 | 1.8 | 2.9 | 2.5 | 5.1 |
| 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 | 2 | 2 | 2 | 2 |
| Polycyclic aromatic hydrocarbons | Nanograms per cubic metre | 24 hour period every 6 days. | 5 | 0.59 | 0.74 | 0.69 | 1.0 |
| Total suspended particles | Micrograms per cubic metre | Every 6 days | 5 | 15 | 46 | 46 | 77 |
| Type 1 and Type 2 substances in aggregate | Micrograms per cubic metre | Quarterly | 2 | 0.13 | 0.19 | 0.19 | 0.25 |
| Zinc | Micrograms per cubic metre | Every 6 days | 5 | <0.11 | 0.14 | 0.13 | 0.29 |
| Comment: | | | | | | | |

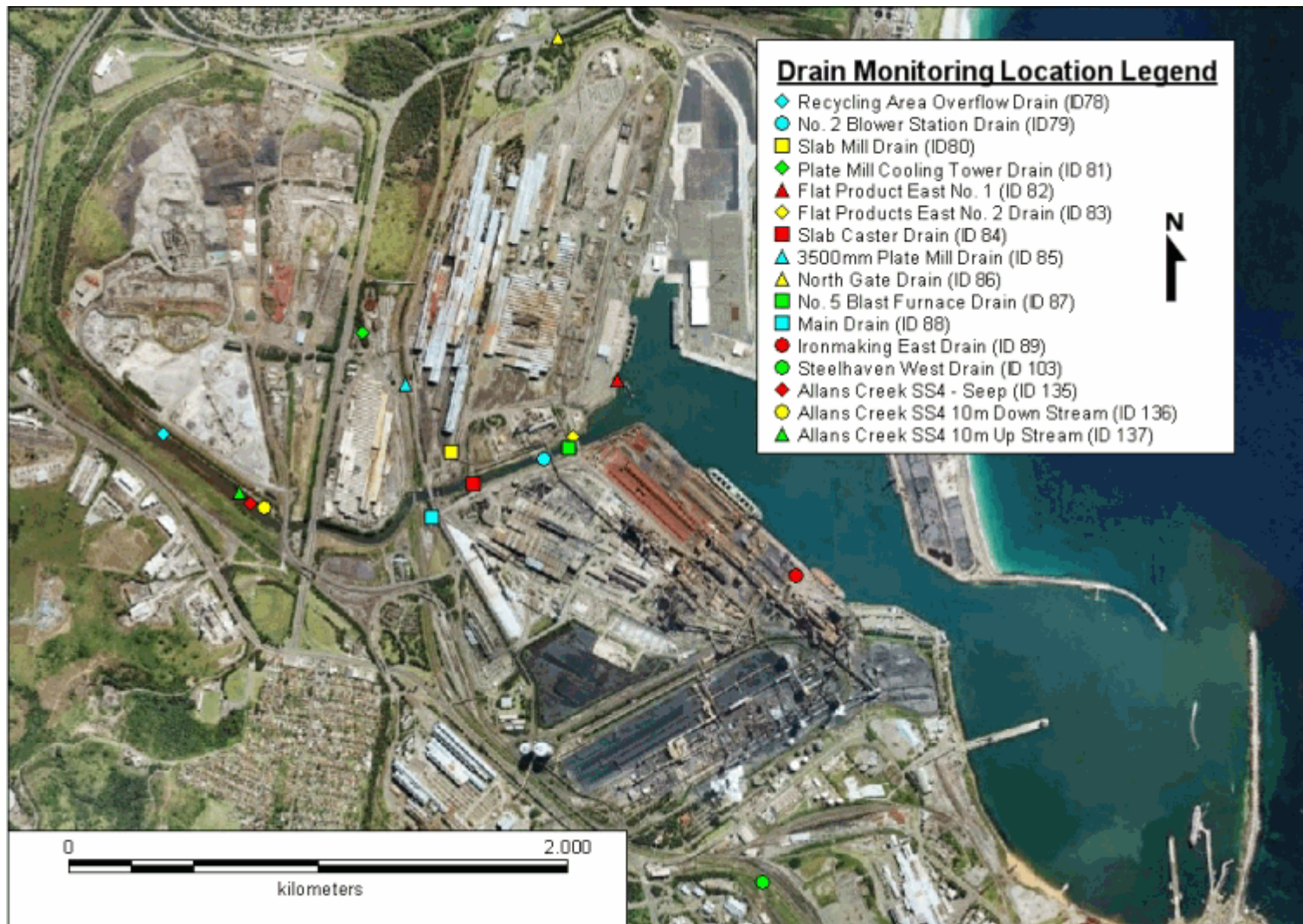
Point 153: Receiver 3 (located west of licensed site)

| 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 | 1.1 | 2.0 | 1.7 | 3.8 |
| 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 | 23 | 36 | 38 | 56 |
| Type 1 and Type 2 substances in aggregate | Micrograms per cubic metre | Quarterly | 2 | 0.078 | 0.11 | 0.11 | 0.15 |
| Zinc | Micrograms per cubic metre | Every 6 days | 5 | <0.11 | <0.11 | 0.06 | 0.13 |
| Comment: | | | | | | | |

Date Obtained: 20/12/2023

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 (years / no) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|---------------------------|
| Ammonia | Milligrams per litre | Every 8 days | 5 | <0.06 | <0.06 | 5.0 (5.0) | no |
| Cyanide | Milligrams per litre | Every 8 days | 5 | <0.02 | <0.02 | 0.30 (0.30) | no |
| Filtrable Iron | Milligrams per litre | Every 8 days | 5 | <0.013 | 0.044 | 0.3 (0.3) | no |
| Oil and Grease | Milligrams per litre | Every 8 days | 5 | <5 | <5 | 20 (50) | no |
| pH | | Every 8 days | 5 | 8.1 | 8.3 | 6.5-9.0 (6.5-9.0) | no |
| Temperature | Degrees Celcius | Every 8 days | 5 | 24.5 | 27 | 40 (40) | no |
| Total Iron | Milligrams per litre | Every 8 days | 5 | 0.097 | 0.83 | 3 (50) | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 5 | <3 | 4 | 50 (500) | no |
| Total Zinc | Milligrams per litre | Every 8 days | 5 | <0.05 | 0.091 | 3 (3) | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 638365 | 658443 | | |
| 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 (years / no) * |
|------------------------------|--------------------|--|------------------------------------|------------|-----------|--------------------------------------|---------------------------|
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 382 | 3093 | | |
| 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 (ye s / no) * |
|------------------------------|--------------------|--|------------------------------------|------------|-----------|--------------------------------------|--------------------------|
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 13 | 842 | | |
| 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 (ye s / no) * |
|------------------------------|--------------------|--|------------------------------------|------------|-----------|--------------------------------------|--------------------------|
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 0 | 154 | | |
| 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 (ye s / 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 | 8.1 | 6.5-9.0 | no |
| Temperature | Degrees Celcius | 24/year. Min 15 days apart | 2 | 20.5 | 21 | 35.00 | no |
| Total Suspended Solids | Milligrams per litre | 24/year. Min 15 days apart | 2 | <3 | <3 | 50.00 | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 34075 | 34848 | | 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 (years / 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 | <0.013 | 0.028 | 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 | 18.5 | 20.5 | 40 (40) | no |
| Total Iron | Milligrams per litre | Every 8 days | 4 | 0.098 | 0.22 | 7 (100) | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 4 | <3 | <3 | 70 (500) | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 1839 | 1911 | | |
| 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 (years / 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 | 8.2 | 6.5-9.0 (6.5-9.0) | no |
| Temperature | Degrees Celcius | 24/year. Min 15 days apart | 2 | 18.5 | 20 | 40 (40) | no |
| Total Suspended Solids | Milligrams per litre | 24/year. Min 15 days apart | 2 | 4 | 8 | 100 (200) | no |
| Total Zinc | Milligrams per litre | 24/year. Min 15 days apart | 2 | 0.069 | 0.07 | 3 (3) | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 28761 | 34763 | | |
| Comment: | | | | | | | |

Date Obtained: 20/12/2023



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 (years / no) * |
|------------------------------|--------------------|--|------------------------------------|------------|-----------|--------------------------------------|---------------------------|
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 0 | 0 | | |
| Comment: | | | | | | | |