



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
MONTHLY SUMMARY REPORT

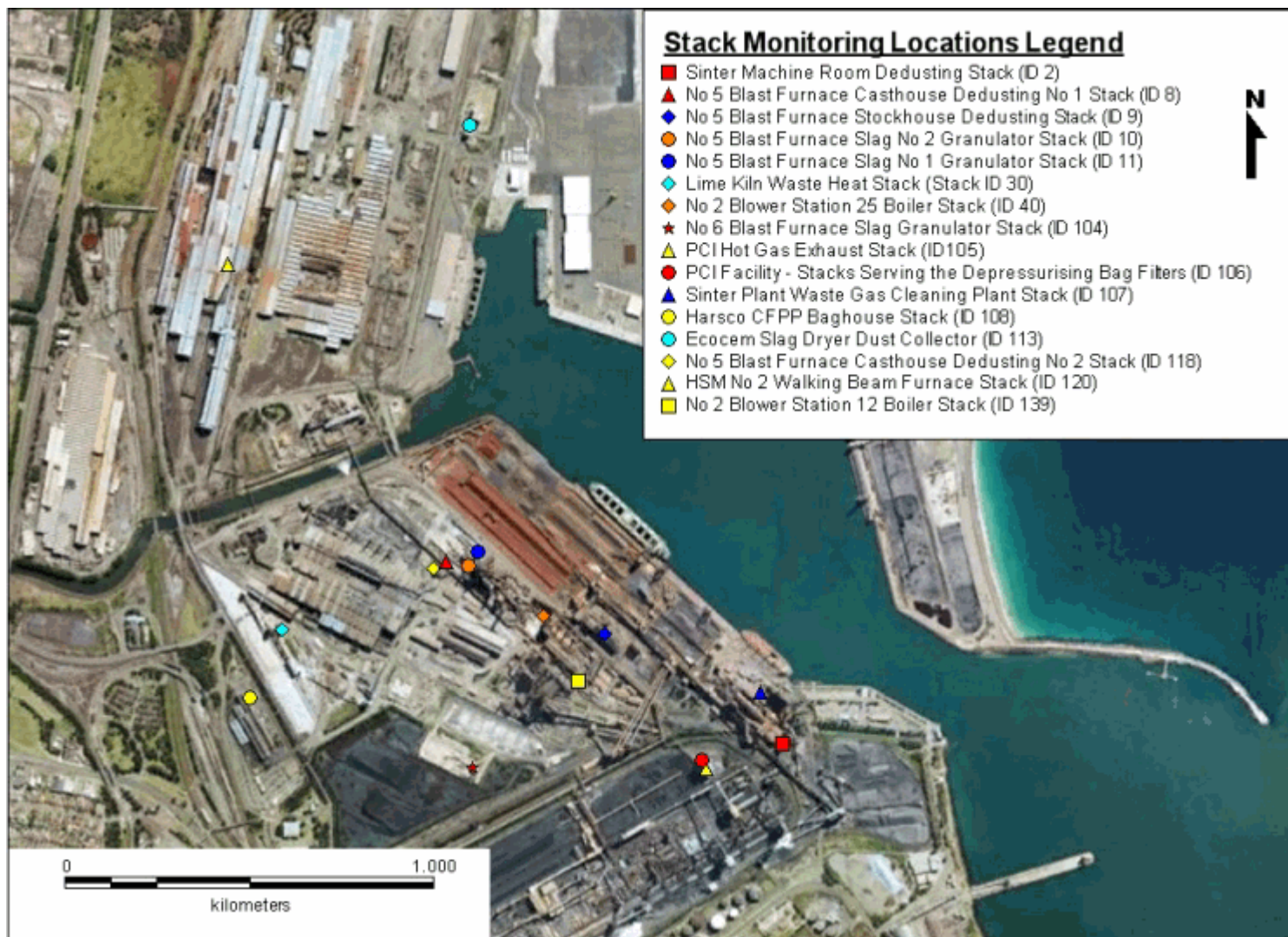
for

1 Apr 2016 to 30 Apr 2016

Monthly (April 2016) Report Published: 21, June, 2016

Stack Air Monitoring Requirements

EPL6092 Conditions M2.2/M2.3/M8.2/E1.4/O4.14/O4.15



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 (yes / no) * |
|-----------------|----------------------------|--|------------------------------------|------------|-----------|----------------------|-------------------------|
| Solid Particles | Milligrams per cubic metre | Quarterly | 1 | 13.00 | 13.00 | 50.00 | no |
| Comment: | | | | | | | |

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 | <0.00041 | <0.00042 | 1.00000 | no |
| Dry Gas Density | Kilograms per cubic metre | Yearly | 2 | 1.29 | 1.29 | | no |
| Mercury | Milligrams per cubic metre | Yearly | 2 | <0.000410 | <0.000420 | 1.000000 | no |
| Moisture | Percent | Yearly | 2 | 2.30 | 3.40 | | no |
| Solid Particles | Milligrams per cubic metre | Yearly | 2 | 1.60 | 1.60 | 20.00 | no |
| Temperature | Degrees Celcius | Yearly | 2 | 33.00 | 35.00 | | no |
| Type 1 and Type 2 substances in aggregate | Milligrams per cubic metre | Yearly | 2 | 0.0150 | 0.0170 | 5.0000 | no |
| Velocity | Metres per second | Yearly | 2 | 12.00 | 12.00 | | no |
| Volumetric flowrate | Cubic metres per second | Yearly | 2 | 8.20 | 8.20 | | no |
| Comment: | | | | | | | |

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 | 7 | 1.29 | 1.29 | | no |
| Hydrogen Sulphide | Grams per second | Quarterly | 1 | 0.93 | 0.93 | 1.20 | no |
| Moisture | Percent | Quarterly | 7 | 5.70 | 13.00 | | no |
| Molecular Weight of stack gases | grams per gram mole | Quarterly | 7 | 28.90 | 28.90 | | no |
| Temperature | Degrees Celcius | Quarterly | 7 | 35.00 | 51.00 | | no |
| Velocity | Metres per second | Quarterly | 7 | 2.60 | 3.70 | | no |
| Volumetric flowrate | Cubic metres per second | Quarterly | 8 | 27.00 | 35.00 | | no |
| Comment: | | | | | | | |

Point 18:

| Pollutant | Units of Measure | Monitoring frequency required by licence | No. of times measured during month | Min. Value | Mean Value | Median Value | Max. Value |
|-------------------|----------------------------|--|------------------------------------|------------|------------|--------------|------------|
| Hydrogen Sulphide | Milligrams per cubic metre | Quarterly | 4 | 2.70 | 3.45 | 3.60 | 3.90 |
| Comment: | | | | | | | |

Point O4.14:

| 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: | | | | |

Point O4.15:

| 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 | 4 | no |
| Comment: | | | | |

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 | 0.42 | 4.81 | 4.57 | 9.27 |
| Comment: Elevated result due to analyser calibration activities. | | | | | | | |

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 | 0.72 | 5.8 | 3.37 | 50.0 |
| Comment: Maximum reading not accurate, occurred when plant off-line due to extreme wet weather. | | | | | | | |



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Ambient Air Monitoring Requirements

EPL6092 Condition M2.2

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 |
|---|----------------------------------|--|------------------------------------|------------|------------|--------------|------------|
| Fine Particulates | Micrograms per cubic metre | Continuous | Continuous | 4.3 | 18.3 | 15.5 | 50.8 |
| Benzene | Parts per billion | Every 6 days | 5 | 0.0370 | 0.0606 | 0.0490 | 0.1100 |
| Iron | Micrograms per cubic metre | Every 6 days | 5 | 0.22 | 1.12 | 0.71 | 3.50 |
| Lead | Micrograms per cubic metre | Every 6 days | 5 | <0.06 | 0.03 | 0.03 | <0.06 |
| Particulates - Deposited Matter | Grams per square metre per month | Monthly | 1 | 1.10 | 1.10 | 1.10 | 1.10 |
| Polycyclic aromatic hydrocarbons | Nanograms per cubic metre | 24 hour period every 6 days. | 5 | 0.60 | 0.92 | 0.61 | 2.20 |
| Total suspended particles | Micrograms per cubic metre | Every 6 days | 5 | 12.00 | 31.80 | 19.00 | 68.00 |
| Type 1 and Type 2 substances in aggregate | Micrograms per cubic metre | Quarterly | 1 | 0.06 | 0.06 | 0.06 | 0.06 |
| Zinc | Micrograms per cubic metre | Every 6 days | 5 | <0.11 | 0.06 | 0.06 | <0.11 |
| 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 |
|---|----------------------------------|--|------------------------------------|------------|------------|--------------|------------|
| Fine Particulates | Micrograms per cubic metre | Continuous | Continuous | 12.1 | 27.1 | 24.85 | 64 |
| Benzene | Parts per billion | Every 6 days | 5 | 0.0360 | 0.0894 | 0.1000 | 0.1200 |
| Iron | Micrograms per cubic metre | Every 6 days | 5 | 0.81 | 1.72 | 1.50 | 3.60 |
| Lead | Micrograms per cubic metre | Every 6 days | 5 | <0.06 | 0.03 | 0.03 | <0.06 |
| Particulates - Deposited Matter | Grams per square metre per month | Monthly | 1 | 0.96 | 0.96 | 0.96 | 0.96 |
| Polycyclic aromatic hydrocarbons | Nanograms per cubic metre | 24 hour period every 6 days. | 5 | 0.67 | 1.10 | 1.10 | 1.80 |
| Total suspended particles | Micrograms per cubic metre | Every 6 days | 5 | 25.00 | 44.40 | 30.00 | 71.00 |
| 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 | 0.09 | 0.06 | 0.14 |
| Comment: | | | | | | | |

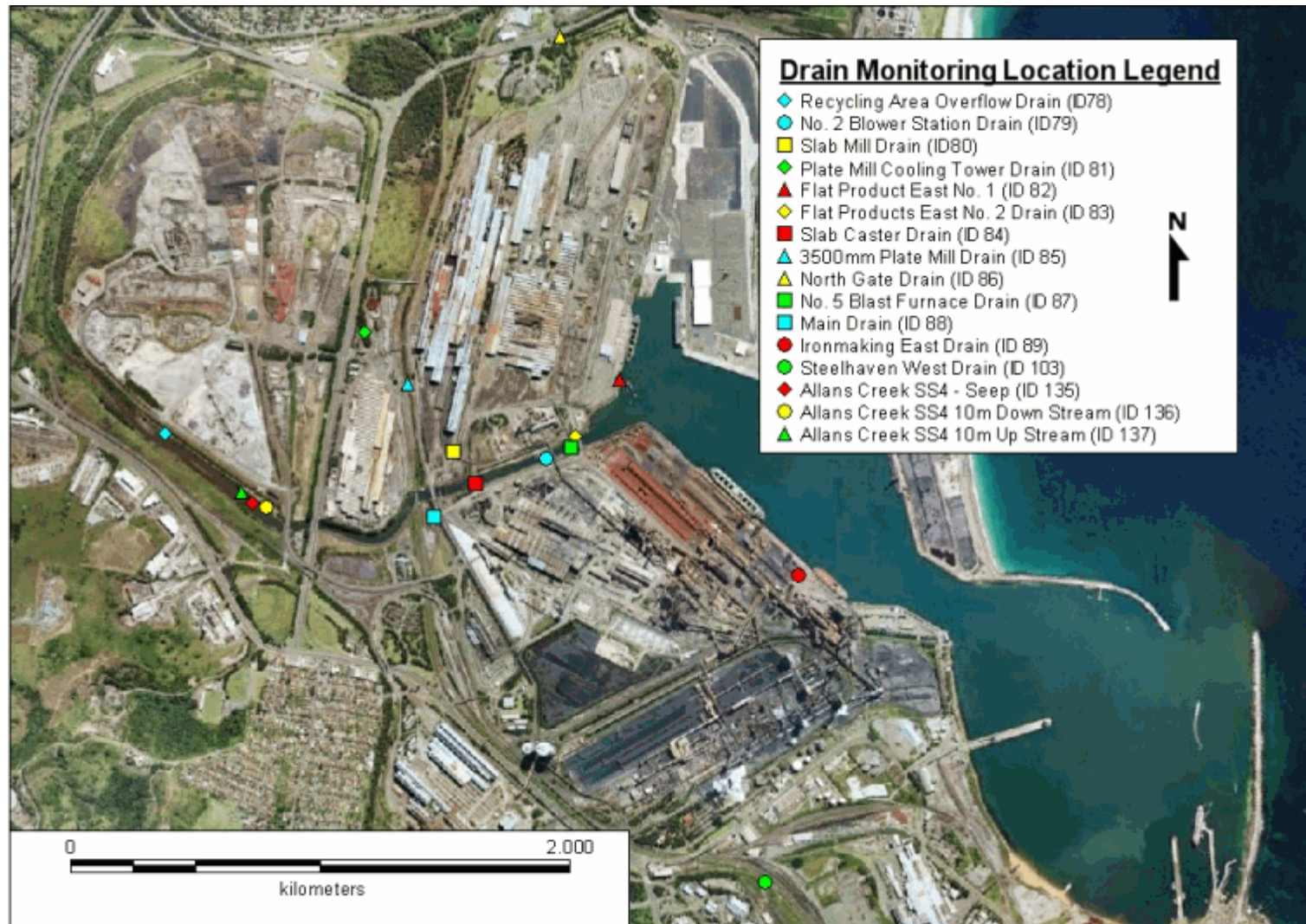


Point 153: Receiver 3 (located west of licensed site)

| 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 | 0.62 | 0.95 | 0.81 | 1.40 |
| Lead | Micrograms per cubic metre | Every 6 days | 5 | <0.06 | 0.03 | 0.03 | <0.06 |
| Total suspended particles | Micrograms per cubic metre | Every 6 days | 5 | 21.00 | 31.80 | 32.00 | 45.00 |
| Type 1 and Type 2 substances in aggregate | Micrograms per cubic metre | Quarterly | 1 | 0.13 | 0.13 | 0.13 | 0.13 |
| Zinc | Micrograms per cubic metre | Every 6 days | 5 | <0.11 | 0.07 | 0.06 | 0.14 |
| Comment: | | | | | | | |

Water and/or Land Monitoring Requirements

EPL6092 Condition 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 |
|------------------------------|--------------------|--|------------------------------------|------------|------------|--------------|------------|
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 4 | <0.0600 | <0.0600 | 5.0 (5.0) | no |
| Cyanide | Milligrams per litre | Every 8 days | 4 | <0.0200 | <0.0200 | 0.30 (0.30) | no |
| Filtrable Iron | Milligrams per litre | Every 8 days | 4 | <0.0100 | 0.0140 | 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 | 8.00 | 8.10 | 6.5-9.0 (6.5-9.0) | no |
| Temperature | Degrees Celcius | Every 8 days | 4 | 27.50 | 31.50 | 40 (40) | no |
| Total Iron | Milligrams per litre | Every 8 days | 4 | 0.0930 | 0.3160 | 3 (50) | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 4 | 3.60 | 16.00 | 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 | 503,810.00 | 724,280.00 | | |
| 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) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Cyanide | Milligrams per litre | 6/yr. Min 50 days apart. | 1 | <0.0200 | <0.0200 | 0.10 (0.00) | no |
| pH | | 6/yr. Min 50 days apart. | 1 | 7.70 | 7.70 | 6.5-9.0 (0.0-0.0) | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 686.00 | 4,370.00 | | |
| 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) * |
|------------------------------|--------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 91.00 | 876.00 | | |
| 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 | 0.00 | 223.00 | | |
| 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 | <5.0000 | <5.0000 | 20.0000 | no |
| pH | | 24/year. Min 15 days apart | 2 | 8.00 | 8.10 | 6.5-9.0 | no |
| Temperature | Degrees Celcius | 24/year. Min 15 days apart | 2 | 25.00 | 26.50 | 35.00 | no |
| Total Suspended Solids | Milligrams per litre | 24/year. Min 15 days apart | 2 | 6.40 | 8.40 | 50.00 | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 32,300.00 | 35,539.00 | | 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 (yes / no) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Ammonia | Milligrams per litre | Every 8 days | 5 | <0.0600 | <0.0600 | 10.0 (10.0) | no |
| Cyanide | Milligrams per litre | Every 8 days | 5 | <0.0200 | <0.0200 | 0.30 (0.30) | no |
| Filtrable Iron | Milligrams per litre | Every 8 days | 5 | <0.0100 | <0.0100 | 1.5 (1.5) | no |
| Lead | Milligrams per litre | Every 8 days | 5 | <0.020 | <0.020 | 0.5 (0.5) | no |
| Mercury | Micrograms per litre | Every 8 days | 5 | <0.50 | <0.50 | 1.5 (1.5) | no |
| pH | | Every 8 days | 5 | 8.00 | 8.10 | 6.5-11.0 (6.5-11.0) | no |
| Temperature | Degrees Celcius | Every 8 days | 5 | 23.50 | 24.50 | 40 (40) | no |
| Total Iron | Milligrams per litre | Every 8 days | 5 | 0.1590 | 0.2460 | 7 (100) | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 5 | <3.00 | 16.00 | 70 (500) | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 2,327.00 | 2,515.00 | | |
| 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 | Every 8 days | 4 | <0.0600 | <0.0600 | 7.5 (7.5) | no |
| Ammonia | Tonnes per day | Every 8 days | 4 | 0.0 | 0.0 | 1.200 | no |
| Cyanide | Kilograms per day | Every 8 days | 4 | 0.0 | 0.0 | 27.00 | no |
| Cyanide | Milligrams per litre | Every 8 days | 4 | <0.0200 | <0.0200 | 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 | 0.0 | 0.0 | 2.50 | no |
| pH | | Every 8 days | 4 | 8.10 | 8.10 | 6.5-9.0 (6.5-9.0) | no |
| Phenol | Kilograms per day | Every 8 days | 4 | 0.0 | 0.0 | 35.00 | no |
| Phenol | Milligrams per litre | Every 8 days | 4 | <0.2000 | <0.2000 | 0.45 (0.45) | no |
| Temperature | Degrees Celcius | Every 8 days | 4 | 22.50 | 25.50 | 40 (40) | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 4 | 3.20 | 16.00 | 100 (200) | no |
| Total Suspended Solids | Tonnes per day | Every 8 days | 4 | 0.25 | 2.46 | 12.00 | no |
| Total Zinc | Kilograms per day | Every 8 days | 4 | 0.0 | 0.0 | 35.00 | 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 | 55,088.00 | 179,251.00 | | |
| 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) * |
|------------------------------|----------------------|--|------------------------------------|------------|-----------|--------------------------------------|-------------------------|
| Ammonia | Milligrams per litre | Every 8 days | 10 | <0.0600 | <0.0600 | 7.0 (7.0) | no |
| Copper | Milligrams per litre | Every 8 days | 10 | <0.010 | 0.010 | 1.000 | no |
| Cyanide | Milligrams per litre | Every 8 days | 10 | <0.0200 | <0.0200 | 0.20 (0.20) | no |
| Filtrable Iron | Milligrams per litre | Every 8 days | 10 | <0.0100 | 0.0200 | 0.5 (0.5) | no |
| Fluoride | Milligrams per litre | Every 8 days | 10 | 3.00 | 4.00 | 50 (50) | no |
| pH | | Every 8 days | 10 | 8.00 | 8.30 | 6.5-9.0 (6.5-9.0) | no |
| Temperature | Degrees Celcius | Every 8 days | 10 | 24.00 | 26.50 | 45 (45) | no |
| Total Iron | Milligrams per litre | Every 8 days | 10 | 0.2200 | 1.3700 | 7 (20) | no |
| Total Suspended Solids | Milligrams per litre | Every 8 days | 10 | 4.80 | 14.00 | 100 (200) | no |
| Total Zinc | Milligrams per litre | Every 8 days | 10 | <0.0500 | 0.1700 | 3 (3) | no |
| Volume of Liquids Discharged | Kilolitres per day | Daily | Continuous | 7,648.00 | 9,458.00 | | |
| Comment: | | | | | | | |