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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 2024 to 30 Apr 2024

Monthly (April 2024) Report Published: 10, July, 2024

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 (years / no) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	2	0.00047	0.00053		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00071	0.00076		no
Chromium (hexavalent)	Milligrams per cubic metre	Yearly in duplicate	2	<0.0003	<0.00031		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.019	0.022	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	18	1.32	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.6	3.7		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	27	28		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	3.9	4.1		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.05	0.056		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0047	0.0053		no
Moisture	Percent	Quarterly in duplicate	18	7.3	10		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	18	29.6	30.1		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.0007	0.00098		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	6	2.8	5.6	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO ₃)	Milligrams per cubic metre	Quarterly in duplicate	6	2.6	6.4	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	6	190	240	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	18	132	138		no
Velocity	Metres per second	Quarterly in duplicate	18	15	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	18	300	340		no

Comment:



Point 120:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Max Value	100 Percentile Limit	Exceedance (years / no) *
Carbon Dioxide	Percent	Yearly	4	3	3.7		no
Dry Gas Density	Kilograms per cubic metre	Yearly	5	1.31	1.31		no
Moisture	Percent	Yearly	5	12	12		no
Molecular Weight of stack gases	grams per gram mole	Yearly	5	29.3	29.3		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	294	379	650.00	no
Oxygen (O2)	Percent	Yearly	4	13	14		no
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	4	665	718	1,250.00	no
Temperature	Degrees Celcius	Yearly	5	253	253		no
Velocity	Metres per second	Yearly	5	18	18		no
Volumetric flowrate	Cubic metres per second	Yearly	5	60	61		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	0.1	2.9	2.6	7.5
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	3.2	7.4	7.2	47.8
Comment: Elevated results due to 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	0.011	0.095	0.073	0.21
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6	13	12	26
Iron	Micrograms per cubic metre	Every 6 days	5	0.22	2.0	0.72	7.2
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.2	1.2	1.20	1.2
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.60	1.0	0.65	2.3
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	25	42	38	78
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.024	0.024	0.02	0.024
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.16

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	0.084	0.12	0.11	0.17
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	10	21	19	37
Iron	Micrograms per cubic metre	Every 6 days	5	1.2	2.3	1.6	4.9
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.8	1.8	1.80	1.8
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.71	1.1	1.1	1.6
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	32	51	54	62
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.049	0.049	0.05	0.049
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.14	0.16	0.21
Comment:							

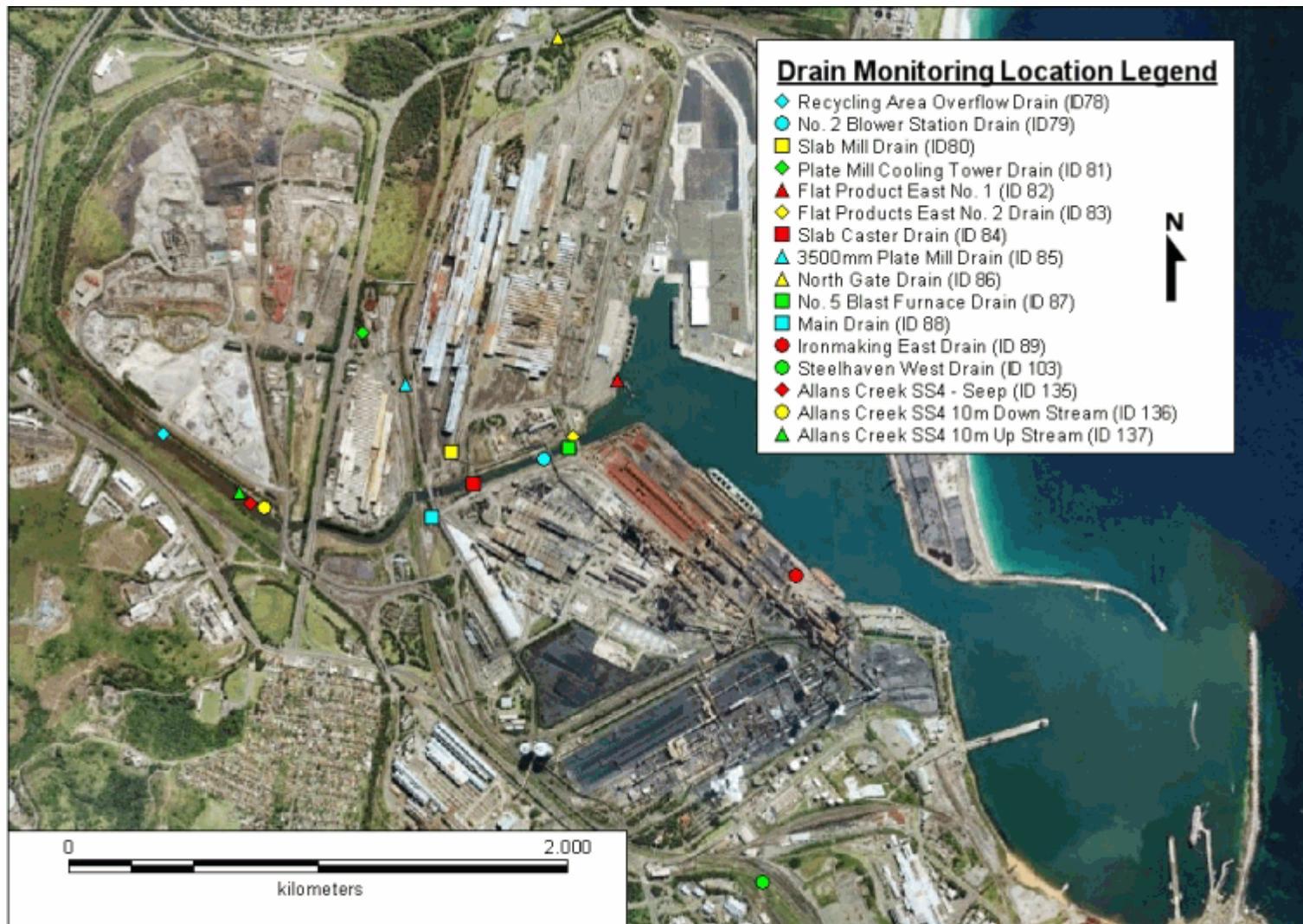
Point 153: Receiver 3 (located west of licensed site)

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	0.91	1.5	1.2	2.9
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.056
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	34	41	38	56
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.023	0.023	0.02	0.023
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
Comment:							

Date Obtained: 8/07/2024

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	141.9	0.00	2555
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	7	<0.06	0.2	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	7	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	7	<0.013	0.069	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	7	<5	<5	20 (50)	no
pH		Every 8 days	7	7.8	8	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	7	24.5	28.5	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	7	0.11	3.5	3 (50)	if dry
Total Suspended Solids	Milligrams per litre	Every 8 days	7	<3	49	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	7	<0.05	0.06	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	531847	681923		
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) *
Cyanide	Milligrams per litre	6/yr. Min 50 days apart.	1	<0.02	<0.02	0.20 (0.00)	no
pH		6/yr. Min 50 days apart.	1	8	8	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	313	12263		
Comment:							

Date Obtained: 8/07/2024



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	108	6154		
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	1161		
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	8.1	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	21.5	23.5	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	4	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	30027	39871		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	5	<0.06	<0.06	10.0 (10.0)	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	0.024	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	5	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	5	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	5	8	8.1	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	5	20	22	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.093	2.8	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	4	52	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1857	2656		

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	3	<0.06	0.53	7.5 (7.5)	no
Cyanide	Milligrams per litre	24/year. Min 15 days apart	3	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	3	<5	<5	20 (50)	no
pH		24/year. Min 15 days apart	3	7.7	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	3	19	21	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	3	<3	53	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	3	<0.05	0.056	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	31620	250727		

Comment:

Date Obtained: 8/07/2024



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) *
Ammonia	Milligrams per litre	Special frequency 11	1	1.1	1.1	7.0 (7.0)	no
Copper	Milligrams per litre	Special frequency 11	1	<0.013	<0.013	1.000	no
Cyanide	Milligrams per litre	Special frequency 11	1	<0.02	<0.02	0.20 (0.20)	no
Fluoride	Milligrams per litre	Special frequency 11	1	2	2	50 (50)	no
pH		Special frequency 11	1	8.3	8.3	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Special frequency 11	1	22	22	45 (45)	no
Total Suspended Solids	Milligrams per litre	Special frequency 11	1	70	70	100 (200)	no
Total Zinc	Milligrams per litre	Special frequency 11	1	0.45	0.45	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	22039		
Comment:							