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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 2022 to 31 Oct 2022

Monthly (October 2022) Report Published: 22, December, 2022

Date Obtained: 20/12/2022

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 (yes / no) *
Solid Particles	Milligrams per cubic metre	Quarterly	1	5.3	5.3	50.00	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	0.75	0.75	1.20	no
Moisture	Percent	Quarterly	7	4.5	8.1		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	7	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	7	31	42		no
Velocity	Metres per second	Quarterly	7	1.7	2.3		no
Volumetric flowrate	Cubic metres per second	Quarterly	8	18	23		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 (yes / no) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	2	0.00048	0.00062		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.001	0.0014		no
Carbon Dioxide	Percent	Quarterly in duplicate	9	5	5.7		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.007583	0.012204	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	21	1.32	1.33		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	2.2	3.1		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	27	27		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	2	2.1		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.033	0.042		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0032	0.0051		no
Moisture	Percent	Quarterly in duplicate	21	8.3	9.6		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	21	29.5	29.8		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00072	0.0008		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	9	257	294	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	9	16	17		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	3	4.1	5.3	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	9	10	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	9	30	56	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	21	135	138		no
Velocity	Metres per second	Quarterly in duplicate	21	15	16		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	21	300	330		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	1.7	3.7	3.2	22.9
Comment: Elevated results associated with plant shutdown and startup							

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	1.2	5.9	5.7	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 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	0.019	0.084	0.035	0.28
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	4	15	13	48
Iron	Micrograms per cubic metre	Every 6 days	5	0.39	1.9	1.3	5.2
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.028	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.73	0.73	0.73	0.73
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.69	1.1	0.71	2.6
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	13	29	21	64
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.021	0.021	0.02	0.021
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
Comment:							



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

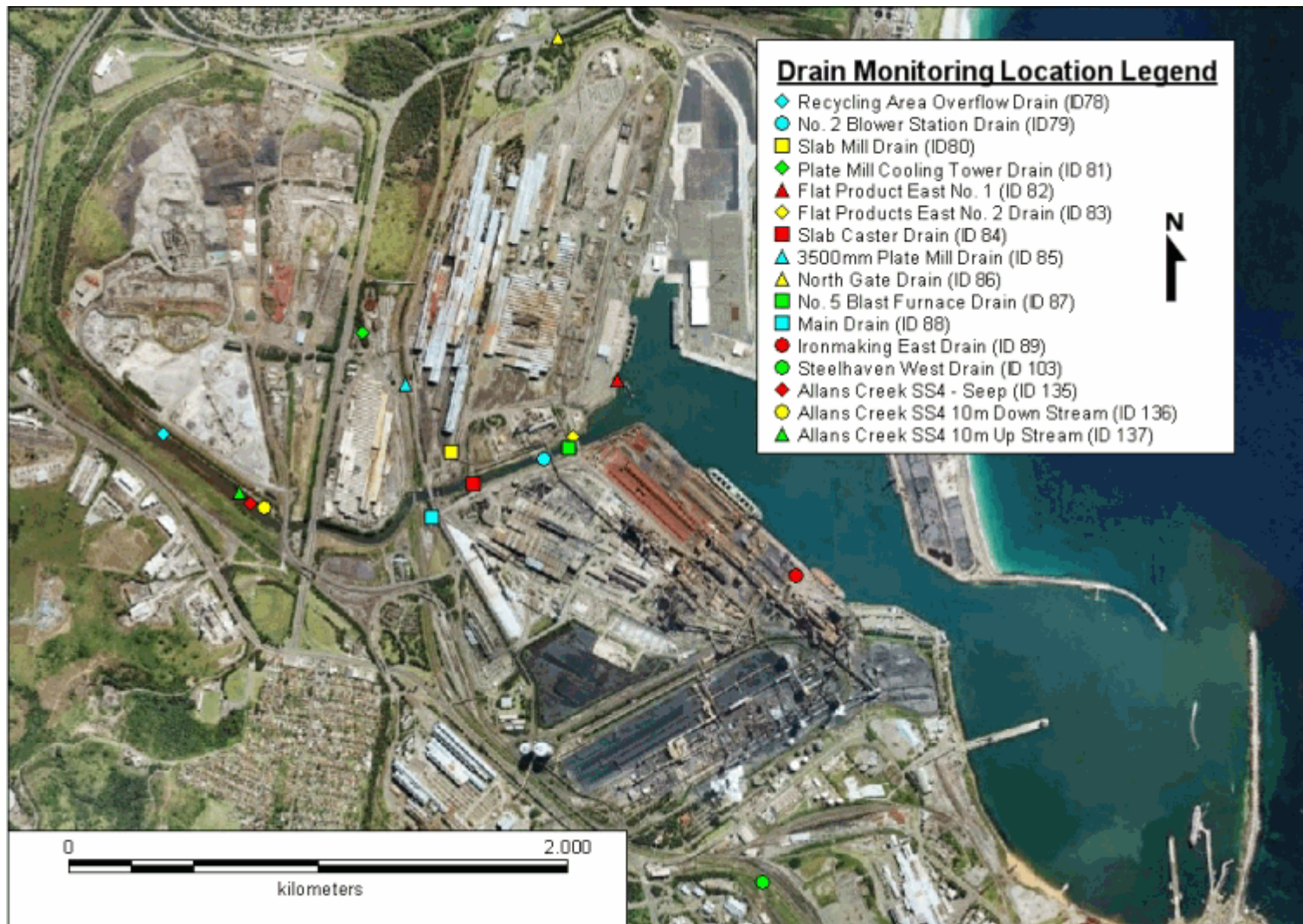
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.032	0.042	0.042	0.051
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	8	17	17	35
Iron	Micrograms per cubic metre	Every 6 days	5	0.67	1.3	1.4	2.1
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.028	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1	1	1.00	1
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.69	0.71	0.71	0.73
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	20	27	27	36
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.065	0.065	0.07	0.065
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
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	0.29	1.2	1.1	1.9
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.028	<0.057
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	24	33	30	45
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.11	0.11	0.11	0.11
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
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
pH		Daily during any discharge which is not due to Wet Weather Conditions	0				
Total Suspended Solids	Milligrams per litre	Daily during any discharge which is not due to Wet Weather Conditions	0				
Continuous	Kilolitres per day	Daily		0	141	0.00	1276
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	9	<0.06	0.17	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	9	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	9	<0.013	0.027	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	9	<5	<5	20 (50)	no
pH		Every 8 days	9	8	8.6	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	9	23.7	27.7	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	9	0.13	3.74	3 (50)	if dry
Total Suspended Solids	Milligrams per litre	Every 8 days	9	<3	70	50 (500)	if dry
Total Zinc	Milligrams per litre	Every 8 days	9	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	574981	674147		
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	739	5362		
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) *
Cyanide	Milligrams per litre	Quarterly grab sample. Min 80 days apart	2	<0.02	<0.02	0.30 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	439	6169		
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) *
Cyanide	Milligrams per litre	Quarterly grab sample. Min 80 days apart	0			0.15 (0.00)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	1147		
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	1	<5	<5	20.0000	no
pH		24/year. Min 15 days apart	1	8	8	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	1	21.2	21.2	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	1	4	4	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	26533	36258		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	3	<0.06	<0.06	10.0 (10.0)	no
Cyanide	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	3	<0.013	0.026	1.5 (1.5)	no
Lead	Milligrams per litre	Every 8 days	3	<0.02	<0.02	0.5 (0.5)	no
Mercury	Micrograms per litre	Every 8 days	3	<0.5	<0.5	1.5 (1.5)	no
pH		Every 8 days	3	8	8.3	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	3	18.7	19.7	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.23	8.2	7 (100)	if dry
Total Suspended Solids	Milligrams per litre	Every 8 days	3	4	83	70 (500)	if dry
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1931	2537		
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	1	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	24/year. Min 15 days apart	1	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	24/year. Min 15 days apart	1	<5	<5	20 (50)	no
pH		24/year. Min 15 days apart	1	8	8	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	1	19.7	19.7	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	1	7	7	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	1	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	26250	156100		
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	Special frequency 11	0			7.0 (7.0)	no
Copper	Milligrams per litre	Special frequency 11	0			1.000	no
Cyanide	Milligrams per litre	Special frequency 11	0			0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Special frequency 11	0			0.5 (0.5)	no
Fluoride	Milligrams per litre	Special frequency 11	0			50 (50)	no
pH		Special frequency 11	0			6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Special frequency 11	0			45 (45)	no
Total Iron	Milligrams per litre	Special frequency 11	0			7 (20)	no
Total Suspended Solids	Milligrams per litre	Special frequency 11	0			100 (200)	no
Total Zinc	Milligrams per litre	Special frequency 11	0			3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	2122		

Comment:



Point 135:

Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Ammonia	Milligrams per litre	1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	<0.06	<0.06	0.0300	<0.06
pH		1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	7.7	7.7	7.70	7.7
Temperature	Degrees Celcius	1 sample in Licence. Q1. 1 sample in Q3. 1 sample following a rainfall event of more than 10mm in a 24 hour period.	1	17.2	17.2	17.20	17.2
Comment:							