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Port Kembla Steelworks
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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 Sep 2023 to 30 Sep 2023

Monthly (September 2023) Report Published: 17, November, 2023

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	1	0.00089	0.00089		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	1	0.001	0.001		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	1	0.012	0.012	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	4	1.32	1.33		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	1	2.2	2.2		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	1	0.083	0.083		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	1	0.048	0.048		no
Moisture	Percent	Quarterly in duplicate	4	8.1	9.5		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	4	29.6	29.8		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	1	0.00054	0.00054		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	1	9	9	20.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	4	135	137		no
Velocity	Metres per second	Quarterly in duplicate	4	15	16		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	4	310	320		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	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	0.053	0.12	0.077	0.22
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6	21	20	62
Iron	Micrograms per cubic metre	Every 6 days	5	0.71	3.3	3.2	6.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.4	1.4	1.40	1.4
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.59	2.4	1.1	7.4
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	15	39	48	59
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.099	0.099	0.10	0.099
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.13
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	0.073	0.18	0.12	0.44
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	7	24	21	57
Iron	Micrograms per cubic metre	Every 6 days	5	1.3	2.0	2.0	3.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.1	1.1	1.10	1.1
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.66	1.1	0.90	1.9
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	22	40	41	53
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.089	0.089	0.09	0.089
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.16
Comment:							

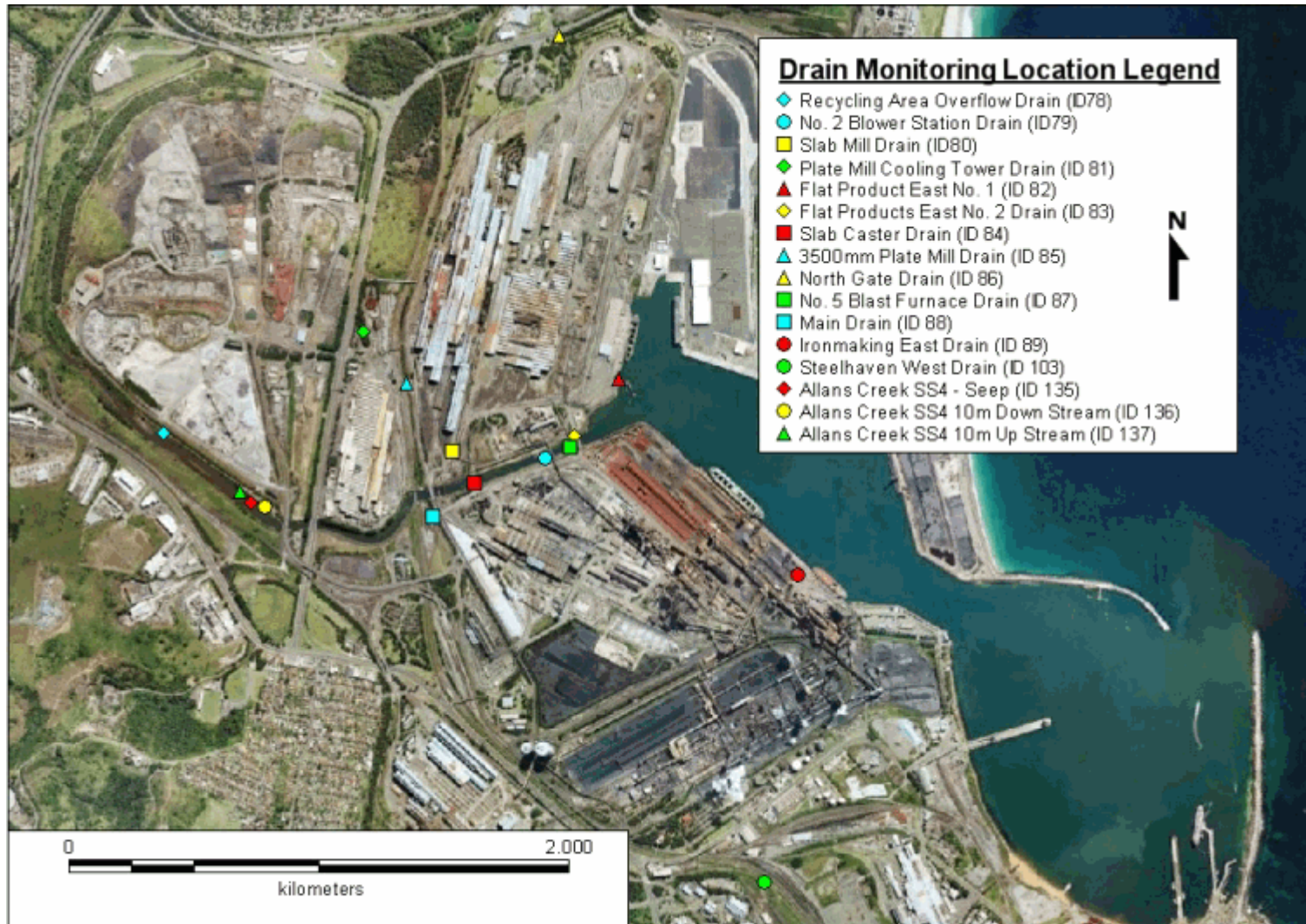
Point 153: Receiver 3 (located west of licensed site)

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	1.5	1.7	1.9
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.057
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	22	35	35	46
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.076	0.076	0.08	0.076
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.11
Comment:							

Date Obtained: 16/11/2023

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	8	<0.06	<0.06	5.0 (5.0)	no
Cyanide	Milligrams per litre	Every 8 days	8	<0.02	<0.02	0.30 (0.30)	no
Filtrable Iron	Milligrams per litre	Every 8 days	8	<0.013	0.076	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	8	<5	<5	20 (50)	no
pH		Every 8 days	8	8.1	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	8	20	26	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	8	0.07	0.17	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	8	<3	6	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	8	<0.05	0.051	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	619446	765402		
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	7.6	7.6	6.5-9.0 (0.0-0.0)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	375	2559		
Comment:							

Date Obtained: 16/11/2023



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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	17	938		
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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	200		
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 (years / 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	19.5	21.5	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	4	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	33934	35308		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	0.019	0.033	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	17.5	20	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.13	0.21	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	4	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	822	1986		
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	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	15.5	20	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	6	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	30084	37614		
Comment:							

Date Obtained: 16/11/2023



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 (yes / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
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	8.3	8.3	8.30	8.3
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	21.5	21.5	21.50	21.5
Comment:							