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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

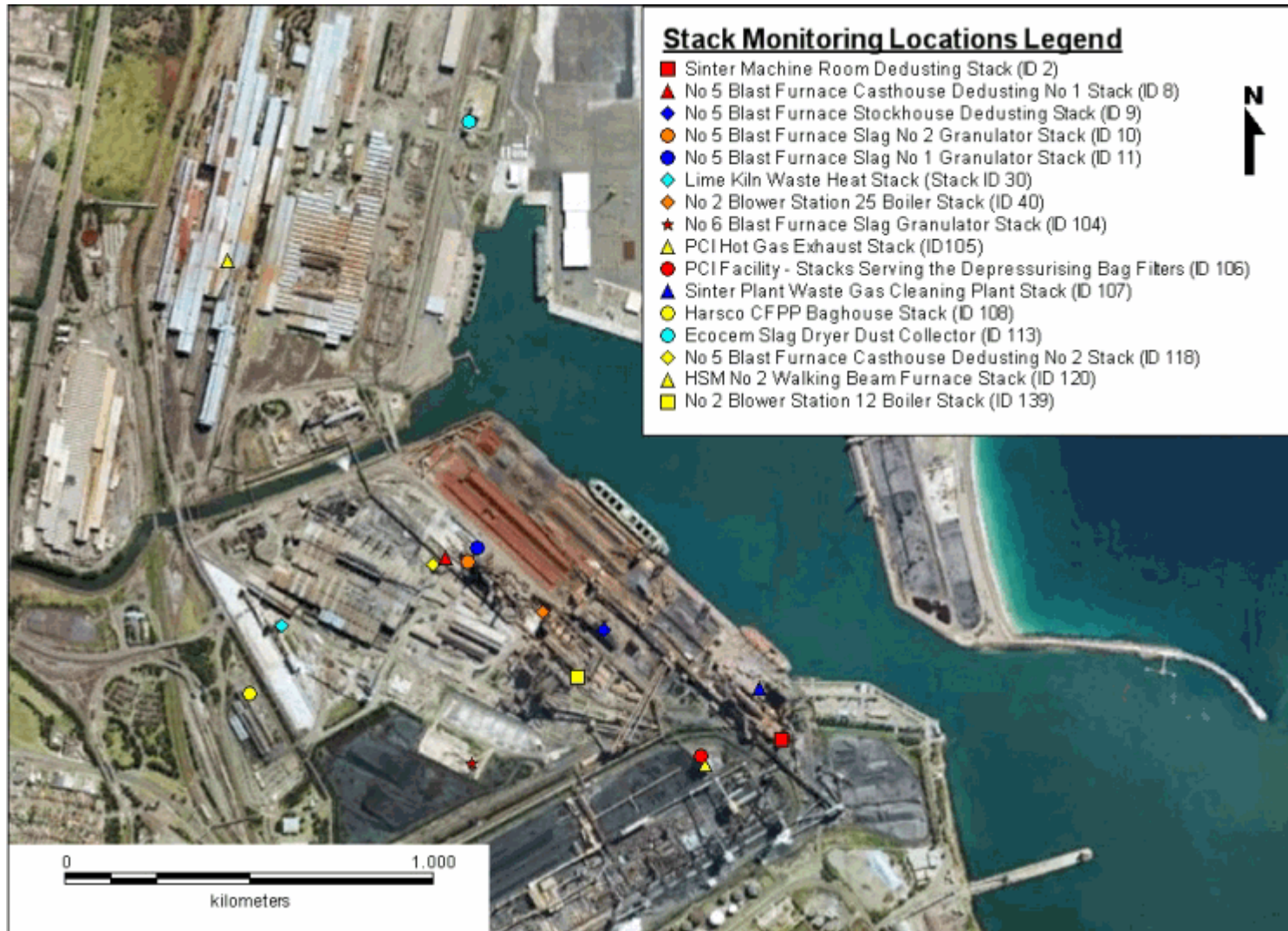
for

1 Aug 2023 to 31 Aug 2023

Monthly (August 2023) Report Published: 24, October, 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 (years / no) *
Solid Particles	Milligrams per cubic metre	Quarterly	1	8.9	8.9	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 (years / no) *
Dry Gas Density	Kilograms per cubic metre	Quarterly	9	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.45	0.45	1.20	no
Moisture	Percent	Quarterly	9	3	6.2		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	9	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	9	24	37		no
Velocity	Metres per second	Quarterly	9	1.9	4.4		no
Volumetric flowrate	Cubic metres per second	Quarterly	10	21	48		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 (years / no) *
Arsenic	Milligrams per cubic metre	Quarterly in duplicate	2	0.00043	0.0013		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.0033	0.0056		no
Carbon Dioxide	Percent	Quarterly in duplicate	19	5.3	6.2		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.016	0.017	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	25	1.32	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	1	2.4	2.4		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.043	0.043		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.003	0.0093		no
Moisture	Percent	Quarterly in duplicate	25	8.6	9.6		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	25	29.7	30.1		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00043	0.0008		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	19	274	321	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	19	16	16		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	3.3	6.4	20.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	19	102	133	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	25	135	137		no
Velocity	Metres per second	Quarterly in duplicate	25	13	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	25	270	350		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	3	2.8	18.2
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	4.6	4.2	48.1
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	0.047	0.087	0.077	0.15
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	3	13	11	33
Iron	Micrograms per cubic metre	Every 6 days	5	0.73	2.2	1.5	4.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.85	0.85	0.85	0.85
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	1.068	0.64	2.4
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	17	28	23	51
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.057	0.057	0.06	0.057
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.19
Comment:							



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

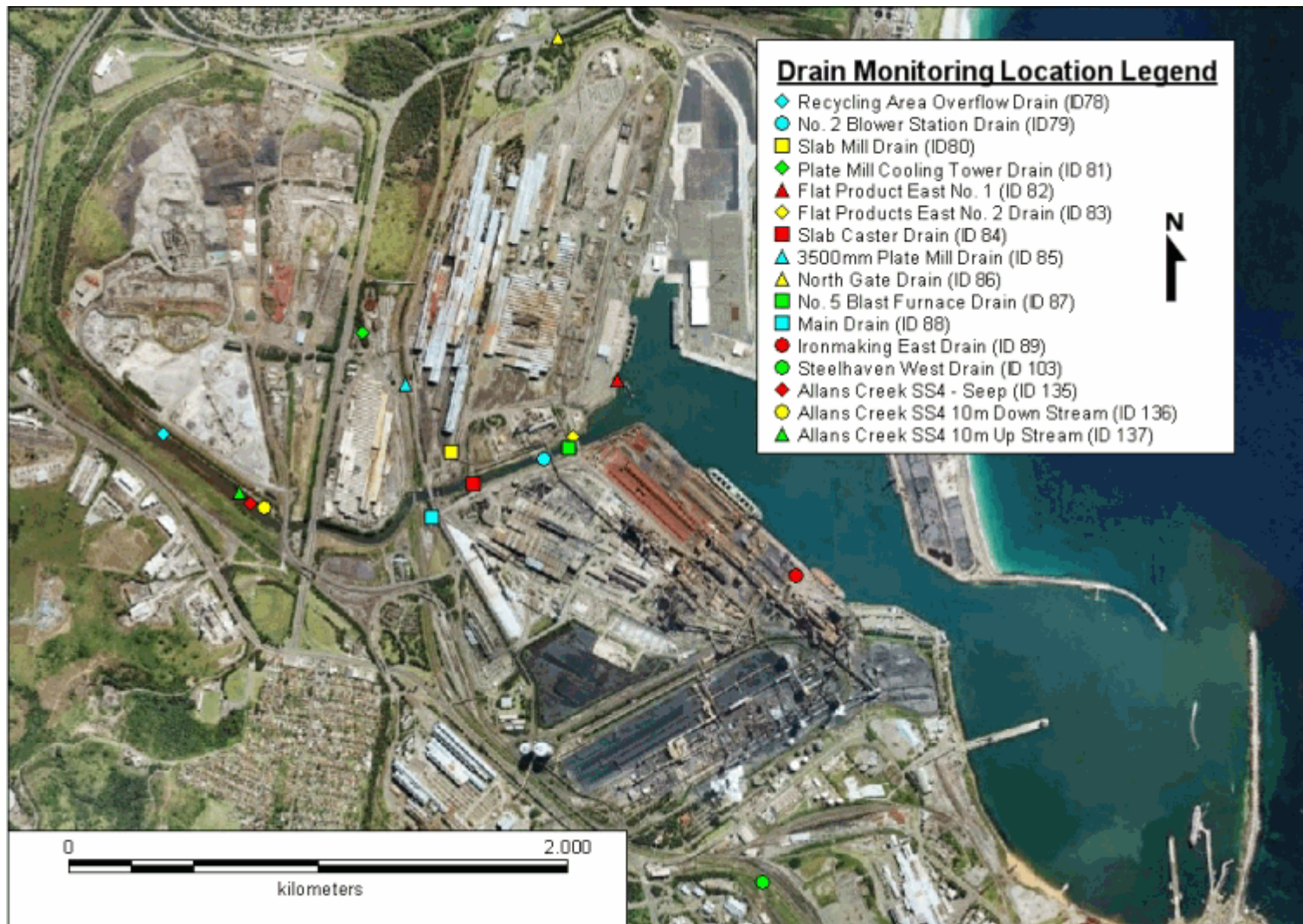
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	<0.01	0.07	0.07	0.14
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	6	19	19	38
Iron	Micrograms per cubic metre	Every 6 days	5	1.6	1.8	1.7	2.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
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	0.59	0.842	0.67	1.2
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	28	39	41	49
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.19	0.19	0.19	0.19
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.24
Comment: Fine particulates - fault on the data communication from the 16/08 – 21/08							

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	0.88	1.7	1.5	3.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.055
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	18	31	32	44
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.31	0.31	0.31	0.31
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.16	0.13	0.40
Comment: Date Obtained: 23/10/2023							

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	19.097	0.00	419
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 (ye s / 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	0.024	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	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	5	17	25.5	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.1	0.2	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	<3	5	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	5	<0.05	0.059	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	627476	764390		
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 (ye s / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	382	3573		
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 (years / no) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	22	3631		
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	768		
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	8.1	8.4	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	17	19	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	8	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	33368	35686		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	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	0.014	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	8.1	8.3	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	3	15	22	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	3	0.1	0.17	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	3	<3	3	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1885	2198		
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	8.3	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	16	17.5	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	10	100 (200)	no
Total Zinc	Milligrams per litre	24/year. Min 15 days apart	2	<0.05	0.051	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	27958	65125		
Comment:							

Date Obtained: 23/10/2023



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:							