



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

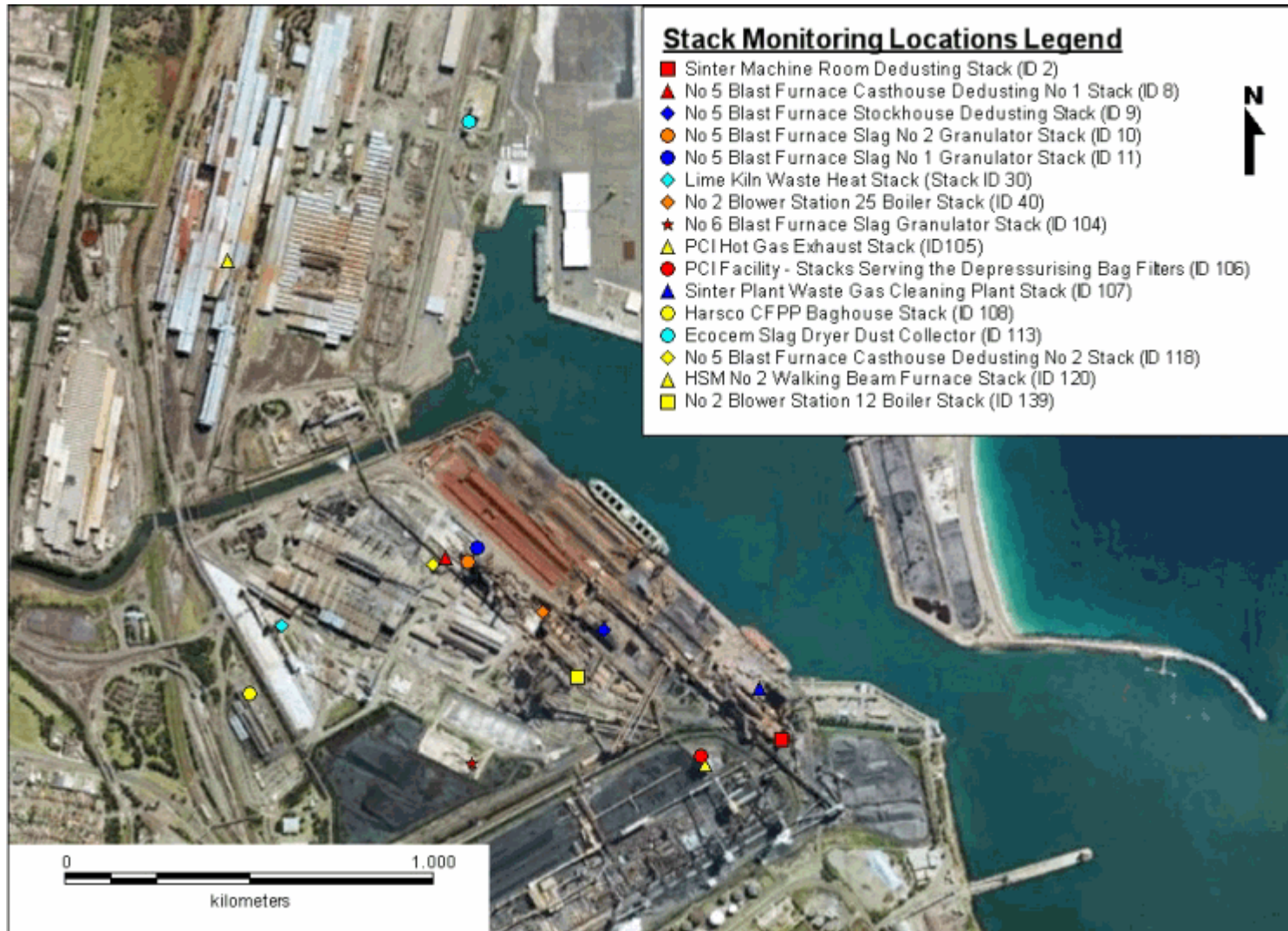
**1 Nov 2020 to 30 Nov 2020**

Monthly (November 2020) Report Published: 22, January, 2021

Date Obtained: 21/01/2021

## Stack Air Monitoring Requirements

EPL6092 Conditions L2.4/M2.2/M2.3/M8.2/E1.4





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**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	5.4	5.4	50.00	no
<b>Comment:</b>							



**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	0.00075	0.0017		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.0013	0.0016		no
Carbon Dioxide	Percent	Quarterly in duplicate	13	4	5.5		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.0081	0.0081	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	25	1.31	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	1.5	4.4		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	26	26		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	1.3	1.3		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.039	0.039		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.006	0.0082		no
Moisture	Percent	Quarterly in duplicate	25	7	13		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	25	29.4	30		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00066	0.00082		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	13	220	276	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	13	16	18		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	2.8	5.3	20.00	no
Sulfuric acid mist and sulphur trioxide (as SO3)	Milligrams per cubic metre	Quarterly in duplicate	2	2.5	2.6	100.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	13	32	48	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	25	132	135		no
Velocity	Metres per second	Quarterly in duplicate	25	16	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	25	310	330		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	8	1.29	1.29		no
Hydrogen Sulphide	Grams per second	Quarterly	1	0.61	0.61	1.20	no
Moisture	Percent	Quarterly	8	4.7	6.9		no
Molecular Weight of stack gases	grams per gram mole	Quarterly	8	28.9	28.9		no
Temperature	Degrees Celcius	Quarterly	8	32	39		no
Velocity	Metres per second	Quarterly	8	2	3.3		no
Volumetric flowrate	Cubic metres per second	Quarterly	9	21	34		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	0.0	3.8	4.2	37.5
<b>Comment:</b> 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	0.0	5.6	5.4	32.4
<b>Comment:</b> Elevated results associated with plant shutdown and startup							



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## **Ambient Air Monitoring Requirements**

EPL6092 Condition M2.2/M2.3/O4.13,O4.14 (Cont.)



**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
<b>Comment:</b>				

**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
<b>Comment:</b>				





**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	0.029	0.1458	0.1300	0.34
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	7	38	32	162
Iron	Micrograms per cubic metre	Every 6 days	5	0.55	3.59	2.60	9.6
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.056
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	2.078	0.94	5.9
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	26	68.8	78.00	120
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.16
<b>Comment:</b>							

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

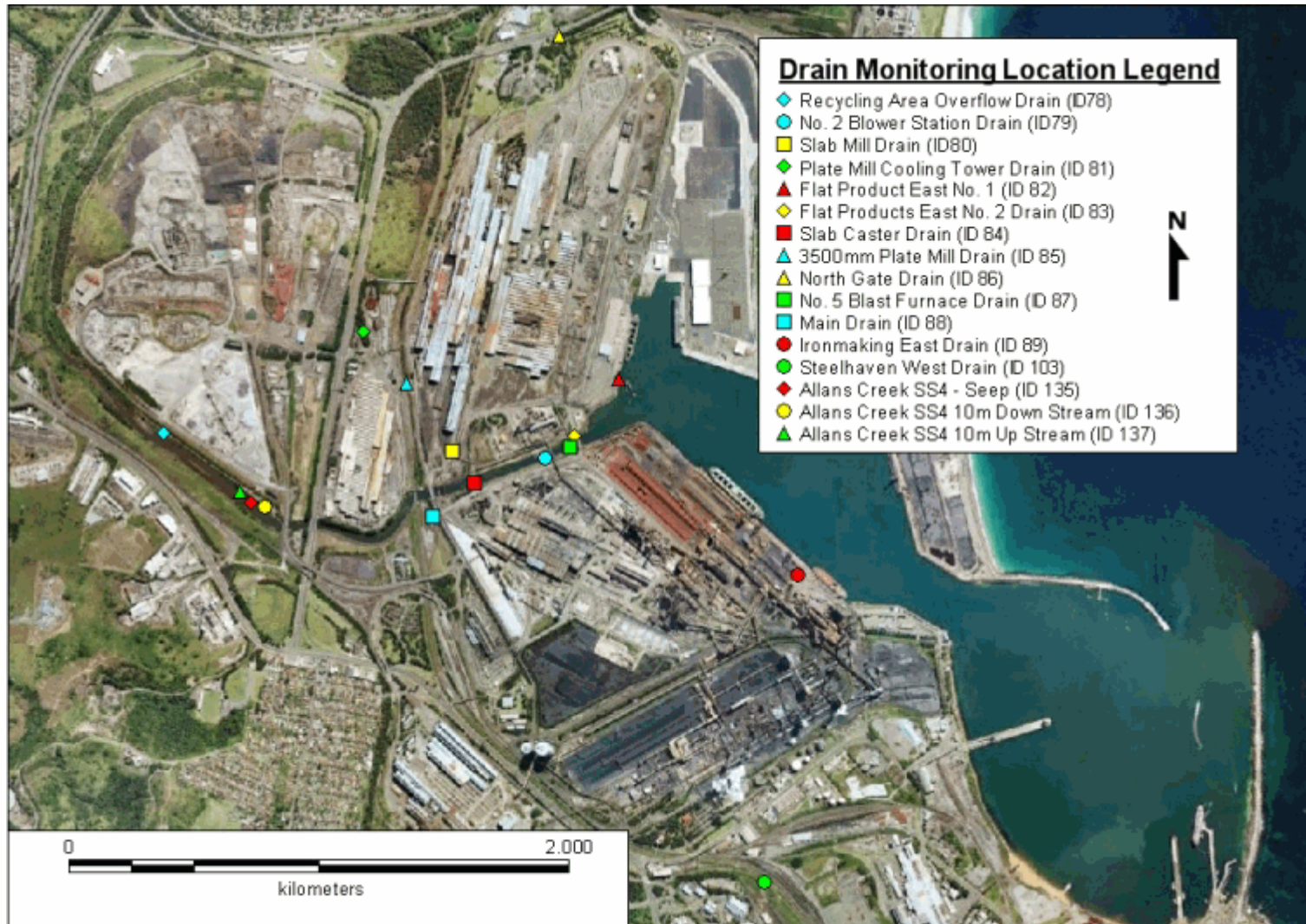
Pollutant	Units of Measure	Monitoring frequency required by licence	No. of times measured during month	Min. Value	Mean Value	Median Value	Max. Value
Benzene	Parts per billion	Every 6 days	5	0.032	0.058	0.0630	0.08
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	10	18	16	31
Iron	Micrograms per cubic metre	Every 6 days	5	1.1	2.78	2.90	5.3
Lead	Micrograms per cubic metre	Every 6 days	5	<0.054	<0.054	0.03	<0.056
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	2.3	2.3	2.30	2.3
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.82	1.228	1.00	2.4
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	47	64.8	68.00	83
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.133	0.06	0.28
<b>Comment:</b>							

**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	0.99	1.678	1.90	2.2
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	39	56.8	54.00	79
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.19
<b>Comment:</b>							

## 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	27.867	0.00	836
<b>Comment:</b>							

**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	<0.06	<0.06	5.0 (5.0)	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	<0.01	<0.01	0.3 (0.3)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5	<5	20 (50)	no
pH		Every 8 days	4	8.1	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	26.2	27.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.1	0.43	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	16	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	4	<0.05	<0.05	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	526969	632421		
<b>Comment:</b>							

**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	<0.02	<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	267	2000		
<b>Comment:</b>							



**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	0	2180		
<b>Comment:</b>							

**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	390		
<b>Comment:</b>							

**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	<5	20.0000	no
pH		24/year. Min 15 days apart	2	8.1	8.1	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	21.2	22.2	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	3	14	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	28051	36978		no
<b>Comment:</b>							



**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	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	<0.01	<0.01	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	18.2	20.2	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.06	0.52	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	16	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1685	2105		
<b>Comment:</b>							

**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	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	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	18.2	22.2	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	5	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	22401	50541		
<b>Comment:</b>							



**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		
<b>Comment:</b>							