



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**

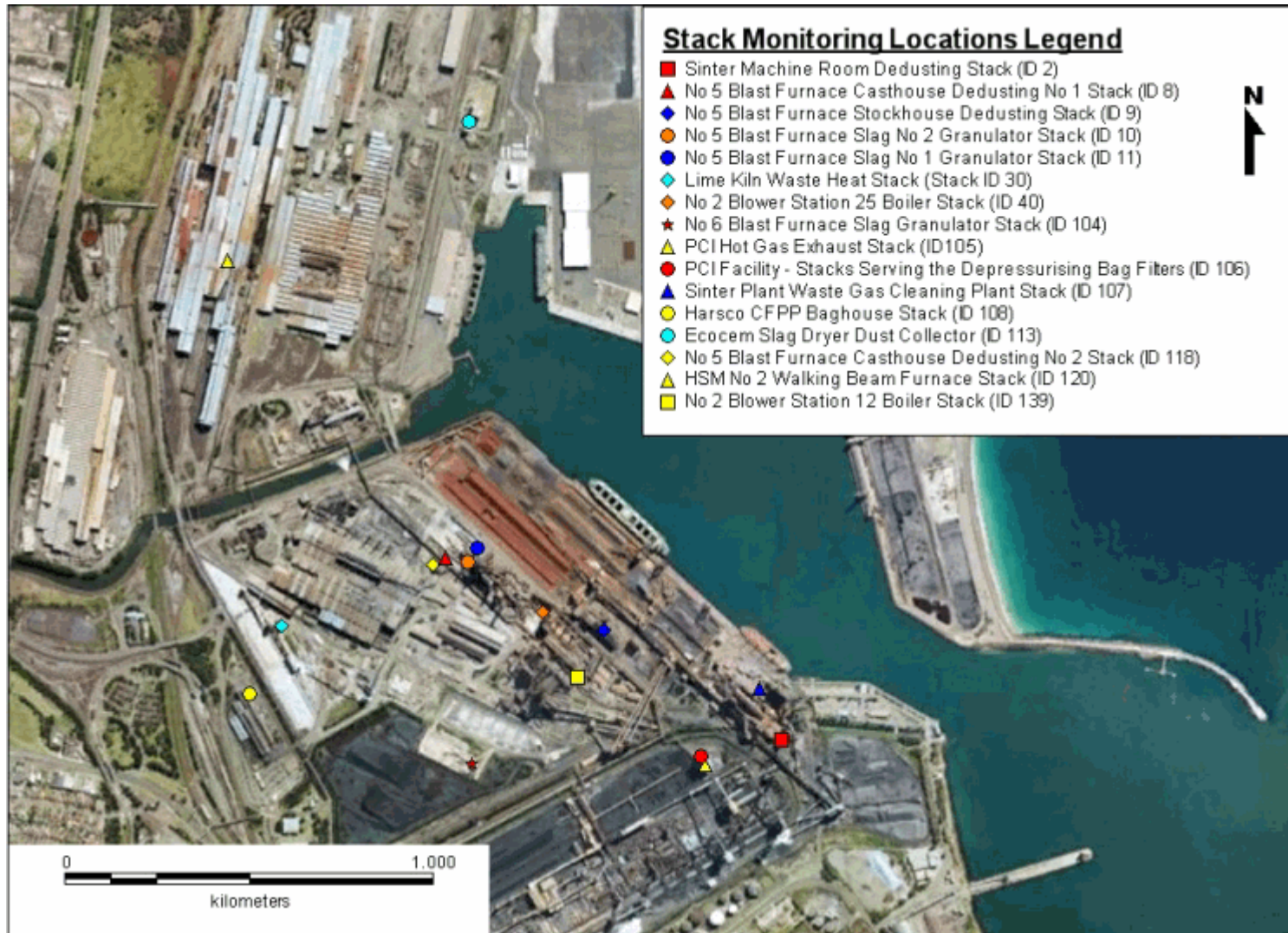
for

**1 Apr 2017 to 30 Apr 2017**

Monthly (April 2017) Report Published: 21, August, 2017

## Stack Air Monitoring Requirements

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





**Point 105:**

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) *
Nitrogen Oxides (3% Oxygen correction)	Milligrams per cubic metre	Yearly	1	<5	<5	200.00	no
Solid Particles (3% Oxygen correction)	Milligrams per cubic metre	Yearly	1	17	17	20.00	no
<b>Comment:</b>							

**Point 106:**

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	Yearly	1	<2	<2	20.00	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	0.00028	0.00028		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.00028	0.00031		no
Carbon Dioxide	Percent	Quarterly in duplicate	24	3.5	7		no
Dioxins & Furans (15.7% Oxygen correction)	Nanograms per cubic metre	Quarterly in duplicate	2	0.002	0.002	0.300000	no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	34	1.33	1.34		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	2	3.4	3.6		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	19	21		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	0.78	0.91		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.011	0.012		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.004	0.0079		no
Moisture	Percent	Quarterly in duplicate	34	10	12		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	34	29.7	30		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00062	0.00094		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	24	164	346	2,000.00	no
Oxygen (O2)	Percent	Quarterly in duplicate	24	16	19		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	2	6.2	16	20.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	24	39	202	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	34	133	139		no
Velocity	Metres per second	Quarterly in duplicate	34	15	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	34	300	330		no



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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	1.6	12.2*
<b>Comment:</b> * Elevated results associated with plant start-up and shutdown.							

**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	1.1	4.9	4.5	40.9*
<b>Comment:</b> * Elevated results associated with plant start-up.							



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## **Ambient Air Monitoring Requirements**

EPL6092 Condition M2.2/M2.3/O4.14,O4.15 (Cont.)



**O4.14**

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>				

**O4.15**

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	4	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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	4.4	13.1	12.1	25
Benzene	Parts per billion	Every 6 days	5	0.034	0.0934	0.0990	0.16
Iron	Micrograms per cubic metre	Every 6 days	5	0.36	1.752	0.71	3.9
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	<0.085
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	0.99	0.99	0.99	0.99
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	0.93	0.61	1.9
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	12	26.4	30.00	37
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.014	0.014	0.014	0.014
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.17
<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
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	12.8	18.6	19.0	27.0
Benzene	Parts per billion	Every 6 days	5	0.035	0.125	0.1100	0.2
Iron	Micrograms per cubic metre	Every 6 days	5	0.65	1.502	1.30	2.7
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	0.93	0.93	0.93	0.93
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.6	0.85	0.79	1.3
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	23	30.2	31.00	34
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.066	0.066	0.07	0.066
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	0.112	0.13	0.18
<b>Comment:</b>							

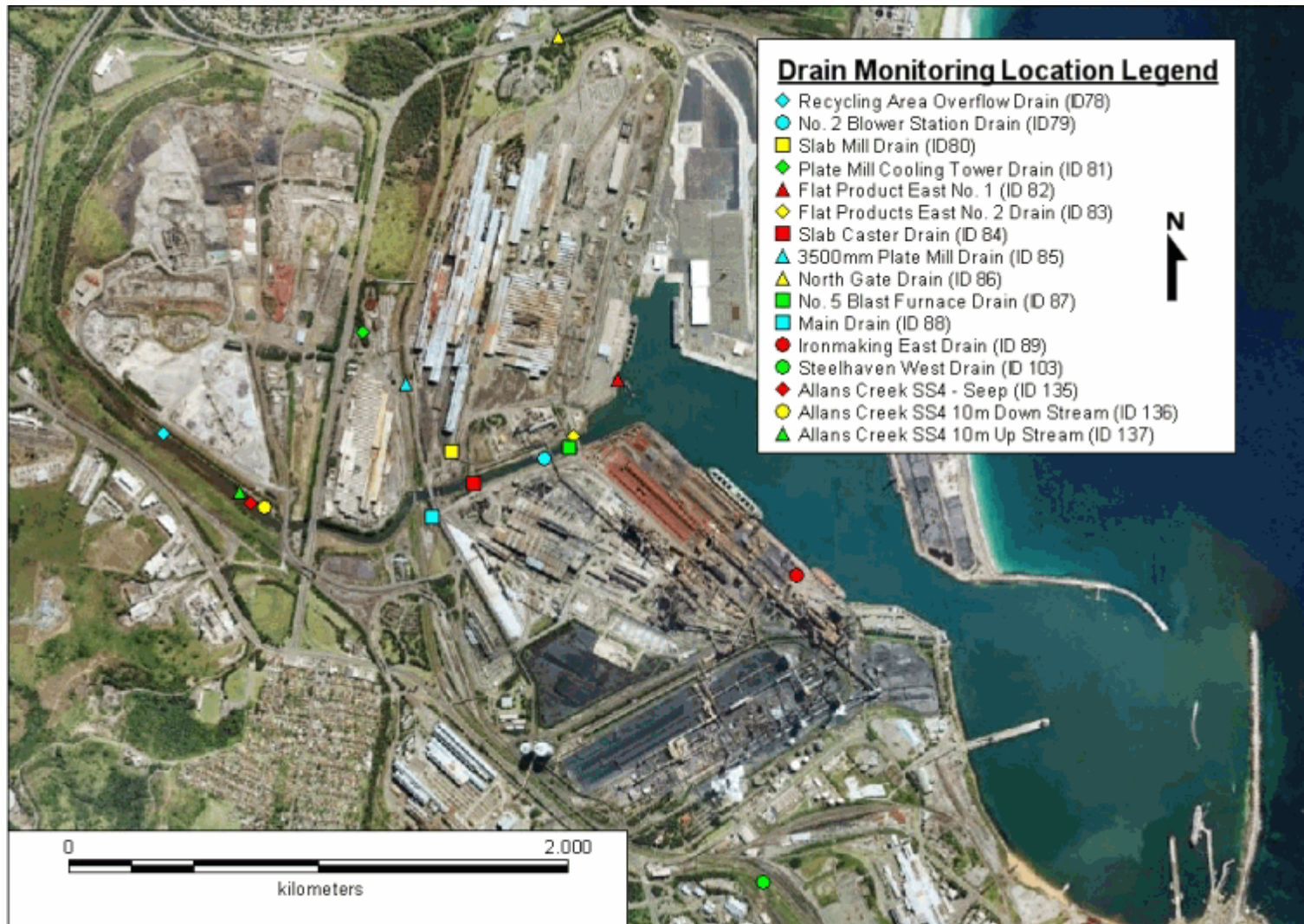


**Point 153: Receiver 3 (located west of licensed site)**

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	0.38	0.872	0.72	1.9
Lead	Micrograms per cubic metre	Every 6 days	5	<0.055	<0.055	0.03	0.067
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	17	21.4	19.00	34
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
<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	11.567	0.00	340
<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	0.02	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	7.9	8.1	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	26	31	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.13	0.34	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	3	18	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	543812	700672		
<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) *
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	427	2369		
<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	124	2136		
<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	508		
<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	8	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	22	25	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	14	14	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	20195	35125		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	0.03	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	7.9	8.1	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	20	24	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.14	2.34	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	4	10	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1686	2405		

**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	Every 8 days	4	<0.06	<0.06	7.5 (7.5)	no
Cyanide	Milligrams per litre	Every 8 days	4	<0.02	<0.02	0.30 (0.30)	no
Oil and Grease	Milligrams per litre	Every 8 days	4	<5	<5	20 (50)	no
pH		Every 8 days	4	7.9	8.2	6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Every 8 days	4	19.5	23	40 (40)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	3	30	100 (200)	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	31767.6	66591		
<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) *
Ammonia	Milligrams per litre	Daily during any discharge	0			7.0 (7.0)	no
Copper	Milligrams per litre	Daily during any discharge	0			1.000	no
Cyanide	Milligrams per litre	Daily during any discharge	0			0.20 (0.20)	no
Filtrable Iron	Milligrams per litre	Daily during any discharge	0			0.5 (0.5)	no
Fluoride	Milligrams per litre	Daily during any discharge	0			50 (50)	no
pH		Daily during any discharge	0			6.5-9.0 (6.5-9.0)	no
Temperature	Degrees Celcius	Daily during any discharge	0			45 (45)	no
Total Iron	Milligrams per litre	Daily during any discharge	0			7 (20)	no
Total Suspended Solids	Milligrams per litre	Daily during any discharge	0			100 (200)	no
Total Zinc	Milligrams per litre	Daily during any discharge	0			3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	0	0		
<b>Comment:</b>							