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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

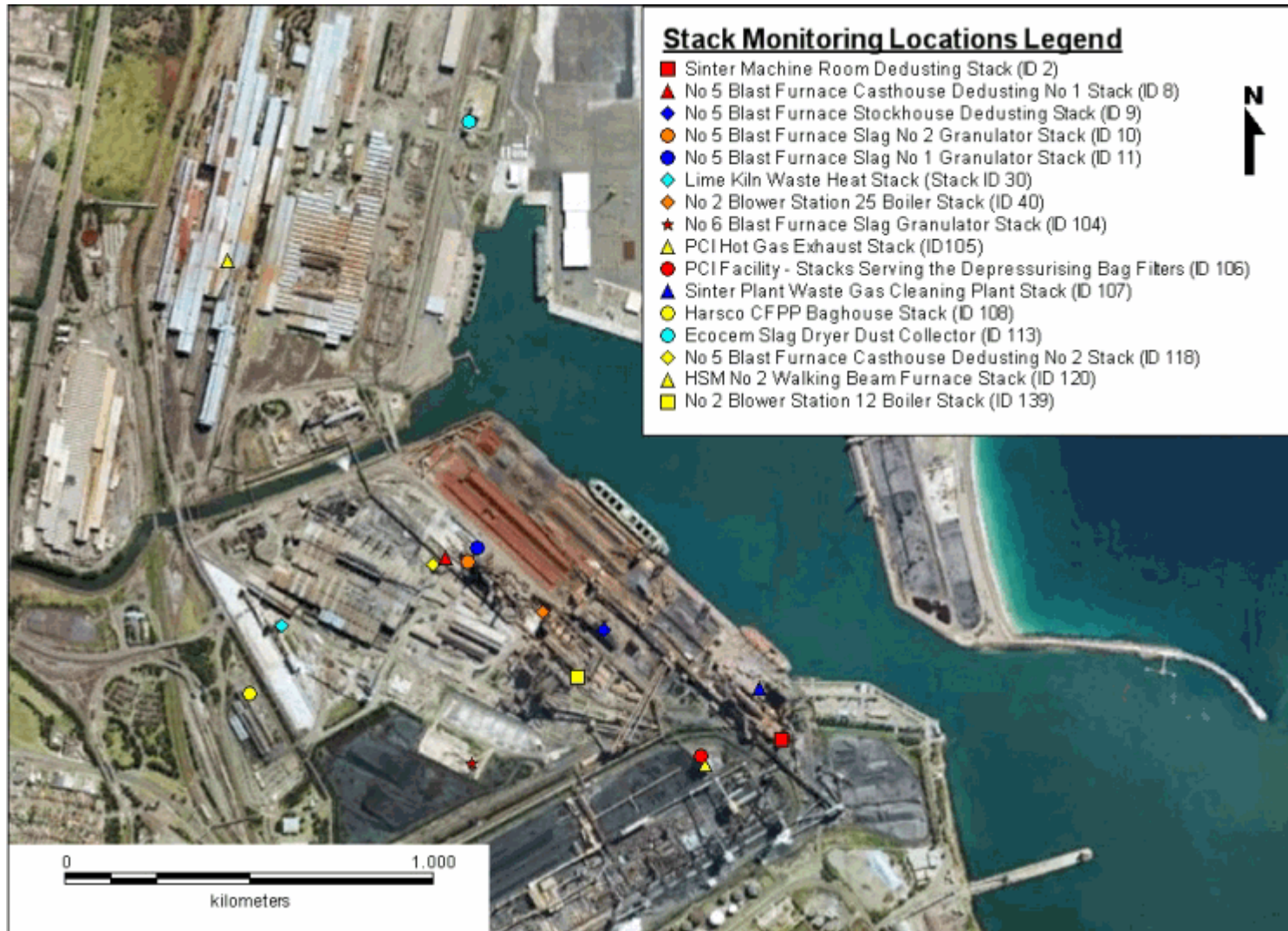
for

1 Jan 2024 to 31 Jan 2024

Monthly (January 2024) Report Published: 7, March, 2024

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	2	0.00053	0.00058		no
Cadmium	Milligrams per cubic metre	Quarterly in duplicate	2	0.0018	0.015		no
Carbon Dioxide	Percent	Quarterly in duplicate	10	4	4.9		no
Dry Gas Density	Kilograms per cubic metre	Quarterly in duplicate	18	1.31	1.32		no
Fine Particulates	Milligrams per cubic metre	Quarterly in duplicate	1	4	4		no
Hydrogen Chloride	Milligrams per cubic metre	Quarterly in duplicate	2	29	33		no
Hydrogen Fluoride	Milligrams per cubic metre	Quarterly in duplicate	2	3.9	4.7		no
Lead	Milligrams per cubic metre	Quarterly in duplicate	2	0.031	0.034		no
Manganese	Milligrams per cubic metre	Quarterly in duplicate	2	0.0053	0.0074		no
Moisture	Percent	Quarterly in duplicate	18	9.1	10		no
Molecular Weight of stack gases	grams per gram mole	Quarterly in duplicate	18	29.4	29.7		no
Nickel	Milligrams per cubic metre	Quarterly in duplicate	2	0.00071	0.0012		no
Nitrogen Oxides	Milligrams per cubic metre	Quarterly	10	230	277	2,000.00	no
Oxygen (O ₂)	Percent	Quarterly in duplicate	10	17	18		no
Solid Particles	Milligrams per cubic metre	Quarterly in duplicate	1	5.1	5.1	20.00	no
Sulphur Dioxide - UV	Milligrams per cubic metre	Quarterly	10	88	220	1,000.00	no
Temperature	Degrees Celcius	Quarterly in duplicate	18	138	143		no
Velocity	Metres per second	Quarterly in duplicate	18	15	17		no
Volumetric flowrate	Cubic metres per second	Quarterly in duplicate	18	300	340		no

Comment:



Point 120:

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) *
Cadmium (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.0043	0.0043	0.10000	no
Carbon Dioxide	Percent	Yearly	7	3.8	4.3		no
Carbon Monoxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	7	<3	<3	400.00	no
Dry Gas Density	Kilograms per cubic metre	Yearly	14	1.3	1.31		no
Mercury (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.0012	0.0012	0.10000	no
Moisture	Percent	Yearly	14	7.2	13		no
Molecular Weight of stack gases	grams per gram mole	Yearly	14	29.1	29.3		no
Nitrogen Oxides (7% Oxygen correction)	Milligrams per cubic metre	Yearly	7	370	555	650.00	no
Oxygen (O2)	Percent	Yearly	7	11	12		no
Solid Particles (7% Oxygen corrected)	Milligrams per cubic metre	Yearly	1	44	44	30.00	yes
Sulphur Dioxide (7% Oxygen correction)	Milligrams per cubic metre	Yearly	7	638	736	1,250.00	no
Temperature	Degrees Celcius	Yearly	14	247	260		no
Type 1 and 2 substances in aggregate (7% Oxygen correction)	Milligrams per cubic metre	Yearly	1	0.37	0.37	1.0000	no
Velocity	Metres per second	Yearly	14	11	19		no
Volumetric flowrate	Cubic metres per second	Yearly	14	37	67		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	1.2	3.3	3.1	13.1
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	6.6	30.1
Comment:							
Elevated results due to 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	0.022	0.14	0.17	0.22
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	12	27	25	49
Iron	Micrograms per cubic metre	Every 6 days	5	0.8	6.0	7.6	10
Lead	Micrograms per cubic metre	Every 6 days	5	<0.056	<0.056	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	1.5	1.5	1.50	1.5
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	5	0.61	4.2	3.1	9.9
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	39	75	85	90
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.18	0.18	0.18	0.18
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	0.15
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	0.028	0.075	0.062	0.13
Fine Particulates	Micrograms per cubic metre	Continuous	Continuous	16	27	24	55
Iron	Micrograms per cubic metre	Every 6 days	4	0.85	4.6	3.9	9.9
Lead	Micrograms per cubic metre	Every 6 days	4	<0.056	<0.056	0.03	<0.057
Particulates - Deposited Matter	Grams per square metre per month	Monthly	1	2.6	2.6	2.60	2.6
Polycyclic aromatic hydrocarbons	Nanograms per cubic metre	24 hour period every 6 days.	4	1.2	1.8	1.6	2.8
Total suspended particles	Micrograms per cubic metre	Every 6 days	4	44	76	66	130
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.041	0.041	0.04	0.041
Zinc	Micrograms per cubic metre	Every 6 days	4	<0.11	0.21	0.21	0.38
Comment:							

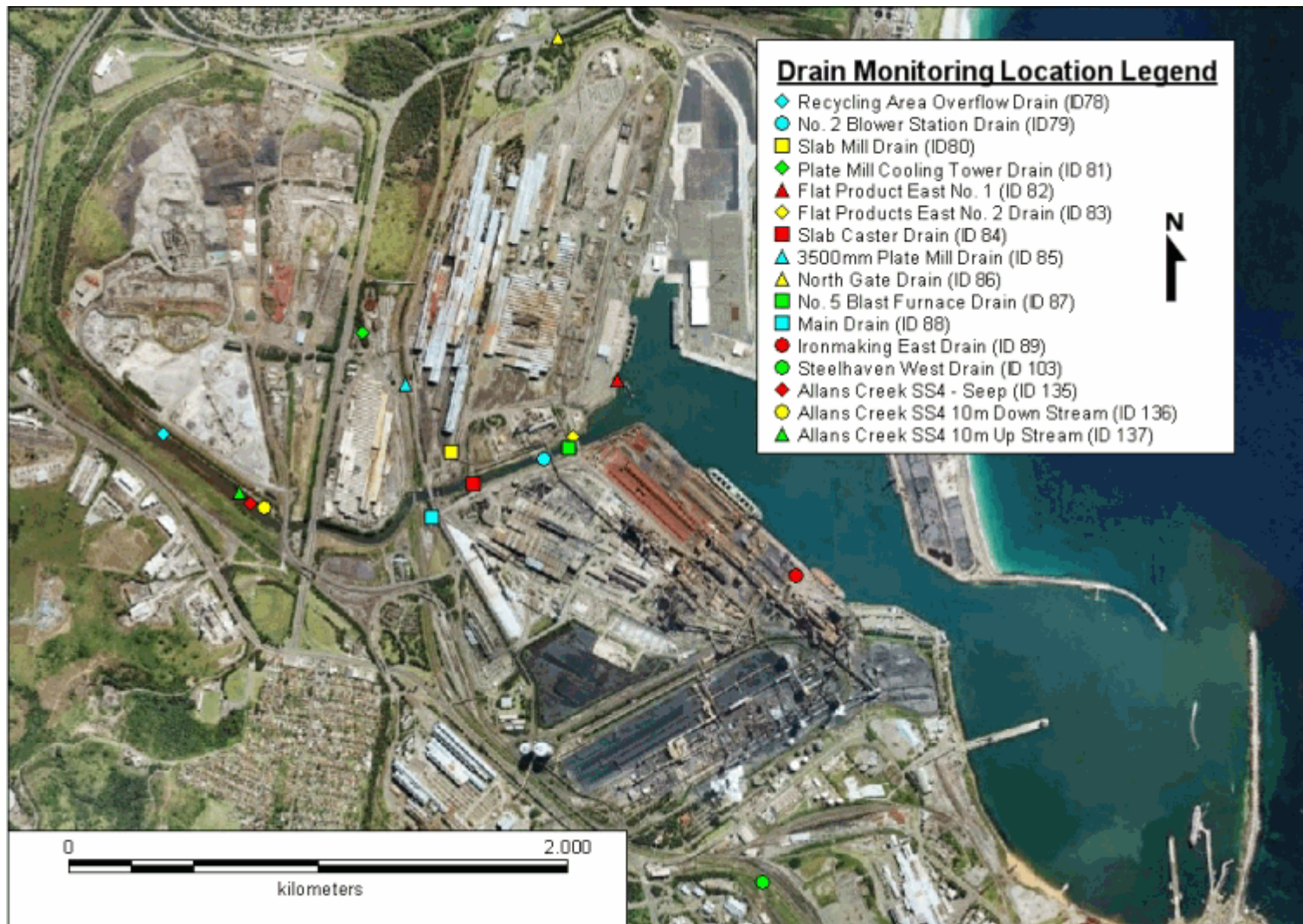
Point 153: Receiver 3 (located west of licensed site)

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	0.27	1.0	0.90	2.2
Lead	Micrograms per cubic metre	Every 6 days	5	<0.056	<0.056	0.03	<0.057
Total suspended particles	Micrograms per cubic metre	Every 6 days	5	28	47	39	89
Type 1 and Type 2 substances in aggregate	Micrograms per cubic metre	Quarterly	1	0.046	0.046	0.05	0.046
Zinc	Micrograms per cubic metre	Every 6 days	5	<0.11	<0.11	0.06	<0.11
Comment:							

Date Obtained: 7/03/2024

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	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	0.015	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	27.5	31	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	5	0.12	0.2	3 (50)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	5	<3	4	50 (500)	no
Total Zinc	Milligrams per litre	Every 8 days	5	<0.05	0.081	3 (3)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	624253	697420		
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	201	2344		
Comment:							

Date Obtained: 7/03/2024



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	256	1020		
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	111		
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	8.1	6.5-9.0	no
Temperature	Degrees Celcius	24/year. Min 15 days apart	2	22	23.5	35.00	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	<3	3	50.00	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	32169	32908		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	0.013	0.07	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	8.1	6.5-11.0 (6.5-11.0)	no
Temperature	Degrees Celcius	Every 8 days	4	21.5	24	40 (40)	no
Total Iron	Milligrams per litre	Every 8 days	4	0.13	0.4	7 (100)	no
Total Suspended Solids	Milligrams per litre	Every 8 days	4	<3	8	70 (500)	no
Volume of Liquids Discharged	Kilolitres per day	Daily	Continuous	1674	1798		
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	21	23.5	40 (40)	no
Total Suspended Solids	Milligrams per litre	24/year. Min 15 days apart	2	4	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	29374	36630		
Comment:							

Date Obtained: 7/03/2024



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:							