

Environmental Monitoring Data:- EPA License Number 549
Site Name: IXOM Operations Pty Ltd
Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: **LDP2 and LDP 4**

LDP2: SMBS (Sodium MetaBisulphite Plant) Stack
Description: This is the small white (22m) high stack adjacent to the white building on site
Pollutants Discharged: This discharge point is licensed for discharge of Sulphur Dioxide (SO2)
Units Of Measure: Sulphur Dioxide is measured in mg/m3 (milligrams per cubic meter)
Monitoring Frequency: Sulphur Dioxide - Continuous Monitoring, licensed in 1hr block averages.

Discharge limit for this point is maximum concentration: Sulphur Dioxide 1hr average maximum is 559 mg/m3

The data in the below table shows the maximum, minimum and average concentrations of **sulphur dioxide** measured on each 24hr day from midnight to midnight.

LDP4: Wastewater discharge to council drain adjacent to Tank 7
Description: This is a wastewater discharge point which discharges treated wastewater only into the council drain which runs through the centre of the site
This drain discharges into the Port Kembla Outer Harbour and also carries storm water run off from the local area.
Pollutants Discharged: This discharge point is licensed for discharge of treated wastewater containing a maximum concentration of Total Suspended Solids as well as finite pH range.
Units Of Measure: Total Suspended Solids are measured in milligrams of solids per litre of wastewater discharged and pH is measured in standard pH units
Monitoring Frequency: Total Suspended Solids - Continuous during discharge events
Monitoring Frequency: pH: - Continuous during discharge events
Discharge limits: pH - The pH is measured in a defined range and the limits are 6.5<pH<8.5. The license applies to **AVERAGE pH** recorded on **each discharge event**.
TSS: The maximum for TSS concentration is 40mg/L in dry weather and 150mg/L in wet weather (wet weather is defined as any 24hr period in which more than 10mm of rain falls). **The license applies to the AVERAGE TSS over each discharge event**
Volume: - This discharge point also requires monitoring of total volume discharged each day and has a maximum allowed discharge volume of <1000kL/day
The data in the table below shows Maximum, Minimum and average values per day for TSS and pH as well as daily volume discharged and total rainfall recorded.

LDP2: SMBS Stack				LDP4: Wastewater Discharge adjacent to T7									
SO2 max allowed		559mg/m3		pH Max allowed			8.5			TSS Max allowed (Dry Weather)		40mg/L	
				pH Min allowed			6.5			TSS Max Allowed (Wet Weather)		150mg/L	
										Max Daily Volume:		1000kL	
	SO2 Max (mg/m3)	SO2 Min (mg/m3)	SO2 Average (mg/m3)		pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS Min (mg/L)	TSS Average (mg/L)	Total Volume (kL)	Rainfall per month (mm)	
Oct-22	19	1	2	Oct-22	8.2	6.8	7.5	29	16	23	293	126	
Nov-22	32	1	4	Nov-22	7.3	7.0	7.1	30	7	18	26	9	
Dec-22	10	2	4	Dec-22	8.1	6.7	7.5	15	6	10	41	19	
Jan-23	7	1	3	Jan-23	7.8	6.8	7.1	4	0	3	70	51	
Feb-23	5	0	3	Feb-23	8.0	6.8	7.3	28	2	11	73	50	
Mar-23	7	1	3	Mar-23	8.2	6.9	7.3	34	6	15	157	73	
Apr-23	9	0	2	Apr-23	7.9	6.8	7.1	12	4	7	102	61	
May-23	8	4	5	May-23	8.1	6.8	7.2	15	6	10	37	41	
Jun-23	8	4	5	Jun-23	8.1	7.0	7.5	4	4	4	5	1	
Jul-23	10	5	6	Jul-23	7.3	7.2	7.3	6	5	6	6	3	
Aug-23	10	2	7	Aug-23	8.2	6.8	7.3	5	3	4	79	71	
Sep-23	8	0	3	Sep-23	8.0	6.6	7.2	8	3	5	44	64	
	32	0	4		8.2	6.6	7.3	34	0	10	931	569	

Environmental Monitoring Data:- EPA License Number 549 **October 2022**
 Site Name: IXOM Operations Pty Ltd
 Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
 The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: LDP2 and LDP 4

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Saturday	1/10/2022	2	1	2
Sunday	2/10/2022	3	1	2
Monday	3/10/2022	3	1	2
Tuesday	4/10/2022	4	1	2
Wednesday	5/10/2022	2	2	2
Thursday	6/10/2022	2	2	2
Friday	7/10/2022	4	2	3
Saturday	8/10/2022	4	2	3
Sunday	9/10/2022	2	1	2
Monday	10/10/2022	2	1	2
Tuesday	11/10/2022	3	2	2
Wednesday	12/10/2022	3	2	2
Thursday	13/10/2022	3	2	3
Friday	14/10/2022	4	2	3
Saturday	15/10/2022	19	1	4
Sunday	16/10/2022	4	1	2
Monday	17/10/2022	3	2	2
Tuesday	18/10/2022	3	2	2
Wednesday	19/10/2022	5	3	3
Thursday	20/10/2022	4	2	3
Friday	21/10/2022	3	2	3
Saturday	22/10/2022	3	2	2
Sunday	23/10/2022	2	2	2
Monday	24/10/2022	2	2	2
Tuesday	25/10/2022	2	2	2
Wednesday	26/10/2022	4	2	3
Thursday	27/10/2022	5	2	3
Friday	28/10/2022	5	2	3
Saturday	29/10/2022	4	2	3
Sunday	30/10/2022	5	2	3
Monday	31/10/2022	4	1	3
Monthly Results		19	1	2

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Saturday	1/10/2022								0
Sunday	2/10/2022								0
Monday	3/10/2022	8.1	7.4	7.8	23	22	23	9.3	0
Tuesday	4/10/2022								0
Wednesday	5/10/2022	7.2	7.2	7.2	22	22	22	1.6	3
Thursday	6/10/2022	8.1	6.9	7.4	26	23	24	77.4	35
Friday	7/10/2022	8.0	7.4	7.7	25	25	25	12.4	0
Saturday	8/10/2022	7.7	7.7	7.7	25	25	25	16.7	18
Sunday	9/10/2022	8.2	6.8	7.5	25	24	25	32.9	5
Monday	10/10/2022	6.9	6.9	6.9	25	25	25	10.5	0
Tuesday	11/10/2022	7.8	7.8	7.8	25	25	25	6.8	0
Wednesday	12/10/2022								0
Thursday	13/10/2022								0
Friday	14/10/2022								0
Saturday	15/10/2022								0
Sunday	16/10/2022								0
Monday	17/10/2022								0
Tuesday	18/10/2022	7.9	7.9	7.9	26	25	26	3.1	0
Wednesday	19/10/2022								0
Thursday	20/10/2022								2
Friday	21/10/2022	7.8	7.1	7.3	27	24	26	20.2	14
Saturday	22/10/2022								0
Sunday	23/10/2022								1
Monday	24/10/2022	7.6	7.0	7.4	20	16	18	33.6	35
Tuesday	25/10/2022	7.2	7.0	7.1	18	16	17	30.9	6
Wednesday	26/10/2022	7.9	7.1	7.5	18	18	18	19.8	0
Thursday	27/10/2022								0
Friday	28/10/2022	7.4	7.4	7.4	20	20	20	5.7	0
Saturday	29/10/2022								0
Sunday	30/10/2022								0
Monday	31/10/2022	7.6	7.0	7.3	29	22	25	12.3	7
Monthly Results		8.2	6.8	7.5	29	16	23	293	126

Environmental Monitoring Data:- EPA License Number 549 **November 2022**
Site Name: IXOM Operations Pty Ltd
Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: **LDP2 and LDP 4**

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Tuesday	1/11/2022	4	1	3
Wednesday	2/11/2022	3	1	1
Thursday	3/11/2022	3	1	2
Friday	4/11/2022	3	1	2
Saturday	5/11/2022	3	2	2
Sunday	6/11/2022	4	2	2
Monday	7/11/2022	4	2	2
Tuesday	8/11/2022	4	2	3
Wednesday	9/11/2022	3	2	2
Thursday	10/11/2022	3	1	2
Friday	11/11/2022	3	1	2
Saturday	12/11/2022	3	1	2
Sunday	13/11/2022	4	2	3
Monday	14/11/2022	4	2	3
Tuesday	15/11/2022	7	2	4
Wednesday	16/11/2022	4	2	3
Thursday	17/11/2022	5	3	4
Friday	18/11/2022	7	3	4
Saturday	19/11/2022	5	3	5
Sunday	20/11/2022	12	5	7
Monday	21/11/2022	13	3	6
Tuesday	22/11/2022	5	3	4
Wednesday	23/11/2022	7	3	5
Thursday	24/11/2022	6	4	5
Friday	25/11/2022	6	4	5
Saturday	26/11/2022	5	4	4
Sunday	27/11/2022	6	4	5
Monday	28/11/2022	6	4	5
Tuesday	29/11/2022	15	3	5
Wednesday	30/11/2022	32	3	6
Monthly Results		32	1	4

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Tuesday	1/11/2022	7.3	7.3	7.3	25	25	25	7.0	0
Wednesday	2/11/2022								0
Thursday	3/11/2022								0
Friday	4/11/2022								0
Saturday	5/11/2022								0
Sunday	6/11/2022								0
Monday	7/11/2022								0
Tuesday	8/11/2022								0
Wednesday	9/11/2022								0
Thursday	10/11/2022								0
Friday	11/11/2022								0
Saturday	12/11/2022								0
Sunday	13/11/2022								1
Monday	14/11/2022	7.2	7.2	7.2	30	7	15	16.2	6
Tuesday	15/11/2022								0
Wednesday	16/11/2022								0
Thursday	17/11/2022								0
Friday	18/11/2022								0
Saturday	19/11/2022								0
Sunday	20/11/2022								0
Monday	21/11/2022								0
Tuesday	22/11/2022								0
Wednesday	23/11/2022								0
Thursday	24/11/2022								0
Friday	25/11/2022								0
Saturday	26/11/2022								0
Sunday	27/11/2022								2
Monday	28/11/2022								0
Tuesday	29/11/2022	7.0	7.0	7.0	14	14	14	2.7	0
Wednesday	30/11/2022								0
Monthly Results		7.3	7.0	7.1	30	7	18	26	9

Environmental Monitoring Data:- EPA License Number 549 **December 2022**
Site Name: IXOM Operations Pty Ltd
Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: **LDP2 and LDP 4**

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Thursday	1/12/2022	5	4	4
Friday	2/12/2022	5	4	4
Saturday	3/12/2022	7	3	5
Sunday	4/12/2022	9	4	6
Monday	5/12/2022	7	4	5
Tuesday	6/12/2022	6	4	5
Wednesday	7/12/2022	7	4	5
Thursday	8/12/2022	6	3	4
Friday	9/12/2022	5	3	4
Saturday	10/12/2022	4	4	4
Sunday	11/12/2022	4	4	4
Monday	12/12/2022	10	4	7
Tuesday	13/12/2022	6	3	5
Wednesday	14/12/2022	5	3	4
Thursday	15/12/2022	5	3	4
Friday	16/12/2022	4	3	3
Saturday	17/12/2022	4	3	3
Sunday	18/12/2022	4	3	3
Monday	19/12/2022	4	2	3
Tuesday	20/12/2022	4	2	3
Wednesday	21/12/2022	4	2	3
Thursday	22/12/2022	3	3	3
Friday	23/12/2022	5	3	4
Saturday	24/12/2022	5	3	4
Sunday	25/12/2022	5	2	4
Monday	26/12/2022	5	3	4
Tuesday	27/12/2022	4	3	3
Wednesday	28/12/2022	4	3	4
Thursday	29/12/2022	3	2	3
Friday	30/12/2022	4	2	3
Saturday	31/12/2022	5	3	4
Monthly Results		10	2	4

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Thursday	1/12/2022								0
Friday	2/12/2022								2
Saturday	3/12/2022								0
Sunday	4/12/2022								0
Monday	5/12/2022								1
Tuesday	6/12/2022	8.1	8.1	8.1	15	15	15	4.2	0
Wednesday	7/12/2022								0
Thursday	8/12/2022								0
Friday	9/12/2022								0
Saturday	10/12/2022								0
Sunday	11/12/2022								0
Monday	12/12/2022								0
Tuesday	13/12/2022								0
Wednesday	14/12/2022								0
Thursday	15/12/2022								0
Friday	16/12/2022								0
Saturday	17/12/2022								2
Sunday	18/12/2022								1
Monday	19/12/2022	7.1	7.1	7.1	6	6	6	3.2	0
Tuesday	20/12/2022								0
Wednesday	21/12/2022								0
Thursday	22/12/2022								0
Friday	23/12/2022								0
Saturday	24/12/2022								0
Sunday	25/12/2022								0
Monday	26/12/2022								0
Tuesday	27/12/2022								0
Wednesday	28/12/2022								0
Thursday	29/12/2022								0
Friday	30/12/2022	7.5	6.7	7.2	11	9	10	33.2	13
Saturday	31/12/2022								0
Monthly Results		8.1	6.7	7.5	15	6	10	41	19

Environmental Monitoring Data:- EPA License Number 549 **January 2023**
Site Name: IXOM Operations Pty Ltd
Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
 The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: **LDP2 and LDP 4**

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Sunday	1/01/2023	5	3	4
Monday	2/01/2023	5	3	3
Tuesday	3/01/2023	5	3	4
Wednesday	4/01/2023	4	2	3
Thursday	5/01/2023	3	1	2
Friday	6/01/2023	2	1	2
Saturday	7/01/2023	3	2	2
Sunday	8/01/2023	4	1	3
Monday	9/01/2023	4	2	3
Tuesday	10/01/2023	5	2	3
Wednesday	11/01/2023	4	2	3
Thursday	12/01/2023	4	3	3
Friday	13/01/2023	5	2	4
Saturday	14/01/2023	7	4	5
Sunday	15/01/2023	5	4	5
Monday	16/01/2023	6	4	5
Tuesday	17/01/2023	6	3	4
Wednesday	18/01/2023	5	3	4
Thursday	19/01/2023	4	2	2
Friday	20/01/2023	3	2	2
Saturday	21/01/2023	5	2	3
Sunday	22/01/2023	3	2	3
Monday	23/01/2023	5	2	3
Tuesday	24/01/2023	5	2	3
Wednesday	25/01/2023	5	2	4
Thursday	26/01/2023	6	3	4
Friday	27/01/2023	5	2	3
Saturday	28/01/2023	5	3	4
Sunday	29/01/2023	5	3	4
Monday	30/01/2023	4	2	3
Tuesday	31/01/2023	3	2	3
Monthly Results		7	1	3

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Sunday	1/01/2023								0
Monday	2/01/2023								0
Tuesday	3/01/2023								0
Wednesday	4/01/2023								1
Thursday	5/01/2023								0
Friday	6/01/2023								0
Saturday	7/01/2023								0
Sunday	8/01/2023								0
Monday	9/01/2023	7.2	7.2	7.2	0	0	0	3.0	0
Tuesday	10/01/2023								0
Wednesday	11/01/2023								0
Thursday	12/01/2023								0
Friday	13/01/2023								0
Saturday	14/01/2023								0
Sunday	15/01/2023								0
Monday	16/01/2023								0
Tuesday	17/01/2023								0
Wednesday	18/01/2023								0
Thursday	19/01/2023	6.9	6.9	6.9	4	4	4	11.1	0
Friday	20/01/2023								0
Saturday	21/01/2023								0
Sunday	22/01/2023								21
Monday	23/01/2023	7.1	6.9	7.0	4	4	4	20.7	2
Tuesday	24/01/2023								0
Wednesday	25/01/2023								0
Thursday	26/01/2023								1
Friday	27/01/2023	7.1	7.1	7.1	4	4	4	7.1	0
Saturday	28/01/2023								0
Sunday	29/01/2023								0
Monday	30/01/2023								26
Tuesday	31/01/2023	7.8	6.8	7.3	4	4	4	27.6	0
Monthly Results		7.8	6.8	7.1	4	0	3	70	51

Environmental Monitoring Data:- EPA License Number 549 **February 2023**
 Site Name: IXOM Operations Pty Ltd
 Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
 The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: LDP2 and LDP 4

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Wednesday	1/02/2023	5	2	3
Thursday	2/02/2023	5	2	4
Friday	3/02/2023	4	1	2
Saturday	4/02/2023	3	0	2
Sunday	5/02/2023	4	1	3
Monday	6/02/2023	4	2	3
Tuesday	7/02/2023	5	3	3
Wednesday	8/02/2023	3	2	2
Thursday	9/02/2023	3	2	2
Friday	10/02/2023	5	1	3
Saturday	11/02/2023	5	2	3
Sunday	12/02/2023	4	2	3
Monday	13/02/2023	3	1	2
Tuesday	14/02/2023	3	1	2
Wednesday	15/02/2023	2	1	1
Thursday	16/02/2023	4	1	2
Friday	17/02/2023	4	1	3
Saturday	18/02/2023	4	2	3
Sunday	19/02/2023	4	2	3
Monday	20/02/2023	4	1	3
Tuesday	21/02/2023	5	2	3
Wednesday	22/02/2023	5	2	3
Thursday	23/02/2023	2	1	2
Friday	24/02/2023	3	1	2
Saturday	25/02/2023	4	2	3
Sunday	26/02/2023	4	2	3
Monday	27/02/2023	5	2	3
Tuesday	28/02/2023	4	3	3
Monthly Results		5	0	3

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Wednesday	1/02/2023								0
Thursday	2/02/2023								0
Friday	3/02/2023								0
Saturday	4/02/2023								0
Sunday	5/02/2023								0
Monday	6/02/2023								0
Tuesday	7/02/2023								1
Wednesday	8/02/2023								1
Thursday	9/02/2023	7.3	7.2	7.2	7	5	6	23.0	24
Friday	10/02/2023	7.8	7.8	7.8	10	10	10	1.5	1
Saturday	11/02/2023								0
Sunday	12/02/2023								0
Monday	13/02/2023	7.6	6.8	7.2	3	2	3	11.1	4
Tuesday	14/02/2023	8.0	6.8	7.4	20	4	10	12.3	4
Wednesday	15/02/2023								0
Thursday	16/02/2023								0
Friday	17/02/2023								0
Saturday	18/02/2023								3
Sunday	19/02/2023								0
Monday	20/02/2023	7.0	7.0	7.0	10	10	10	7.2	0
Tuesday	21/02/2023								11
Wednesday	22/02/2023	7.4	7.3	7.4	28	9	19	14.7	1
Thursday	23/02/2023	6.9	6.9	6.9	20	20	20	2.8	0
Friday	24/02/2023								0
Saturday	25/02/2023								0
Sunday	26/02/2023								0
Monday	27/02/2023								0
Tuesday	28/02/2023								0
Monthly Results		8.0	6.8	7.3	28	2	11	73	50

Environmental Monitoring Data:- EPA License Number 549 **March 2023**
Site Name: IXOM Operations Pty Ltd
Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: **LDP2 and LDP 4**

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Wednesday	1/03/2023	4	2	3
Thursday	2/03/2023	4	2	3
Friday	3/03/2023	4	2	3
Saturday	4/03/2023	3	2	2
Sunday	5/03/2023	4	2	3
Monday	6/03/2023	4	2	3
Tuesday	7/03/2023	7	3	4
Wednesday	8/03/2023	5	3	4
Thursday	9/03/2023	5	1	3
Friday	10/03/2023	4	4	4
Saturday	11/03/2023	4	3	4
Sunday	12/03/2023	3	3	3
Monday	13/03/2023	3	3	3
Tuesday	14/03/2023	3	2	3
Wednesday	15/03/2023	2	2	2
Thursday	16/03/2023	4	2	3
Friday	17/03/2023	7	2	4
Saturday	18/03/2023	5	3	4
Sunday	19/03/2023	5	3	4
Monday	20/03/2023	5	3	4
Tuesday	21/03/2023	3	1	2
Wednesday	22/03/2023	2	1	1
Thursday	23/03/2023	2	1	2
Friday	24/03/2023	3	1	2
Saturday	25/03/2023	4	1	2
Sunday	26/03/2023	2	1	2
Monday	27/03/2023	3	1	2
Tuesday	28/03/2023	4	2	3
Wednesday	29/03/2023	4	2	3
Thursday	30/03/2023	4	1	2
Friday	31/03/2023	3	1	2
Monthly Results		7	1	3

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Wednesday	1/03/2023								0
Thursday	2/03/2023	7.6	7.6	7.6	8	8	8	3.7	2
Friday	3/03/2023								0
Saturday	4/03/2023								1
Sunday	5/03/2023								0
Monday	6/03/2023	6.9	6.9	6.9	11	11	11	4.6	0
Tuesday	7/03/2023								0
Wednesday	8/03/2023								0
Thursday	9/03/2023								0
Friday	10/03/2023								0
Saturday	11/03/2023								0
Sunday	12/03/2023								0
Monday	13/03/2023	7.7	6.9	7.2	9	8	8	15.8	26
Tuesday	14/03/2023	8.2	6.9	7.5	34	24	28	102.3	38
Wednesday	15/03/2023								0
Thursday	16/03/2023								0
Friday	17/03/2023								0
Saturday	18/03/2023								0
Sunday	19/03/2023								0
Monday	20/03/2023								2
Tuesday	21/03/2023	7.9	7.9	7.9	16	16	16	7.2	0
Wednesday	22/03/2023								0
Thursday	23/03/2023								1
Friday	24/03/2023	7.1	7.1	7.1	9	9	9	8.6	0
Saturday	25/03/2023								0
Sunday	26/03/2023								0
Monday	27/03/2023	7.1	7.1	7.1	33	33	33	6.3	1
Tuesday	28/03/2023								0
Wednesday	29/03/2023	7.0	7.0	7.0	6	6	6	8.8	2
Thursday	30/03/2023								0
Friday	31/03/2023								0
Monthly Results		8.2	6.9	7.3	34	6	15	157	73

Environmental Monitoring Data:- EPA License Number 549

April 2023

Site Name: IXOM Operations Pty Ltd

Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505

The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: LDP2 and LDP 4

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Saturday	1/04/2023	2	1	1
Sunday	2/04/2023	2	1	1
Monday	3/04/2023	3	1	2
Tuesday	4/04/2023	3	1	2
Wednesday	5/04/2023	4	1	2
Thursday	6/04/2023	3	1	2
Friday	7/04/2023	3	1	2
Saturday	8/04/2023	3	1	2
Sunday	9/04/2023	2	0	1
Monday	10/04/2023	2	0	1
Tuesday	11/04/2023	2	0	1
Wednesday	12/04/2023	2	0	1
Thursday	13/04/2023	2	0	1
Friday	14/04/2023	2	1	1
Saturday	15/04/2023	2	1	1
Sunday	16/04/2023	3	0	2
Monday	17/04/2023	3	0	2
Tuesday	18/04/2023	3	0	1
Wednesday	19/04/2023	3	0	1
Thursday	20/04/2023	3	1	2
Friday	21/04/2023	2	1	1
Saturday	22/04/2023	2	1	1
Sunday	23/04/2023	3	1	2
Monday	24/04/2023	3	1	2
Tuesday	25/04/2023	2	1	2
Wednesday	26/04/2023	3	1	2
Thursday	27/04/2023	8	1	4
Friday	28/04/2023	9	6	7
Saturday	29/04/2023	9	6	8
Sunday	30/04/2023	7	6	7
Monthly Results		9	0	2

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Saturday	1/04/2023								0
Sunday	2/04/2023								11
Monday	3/04/2023	7.9	6.8	7.0	5	4	5	33.2	0
Tuesday	4/04/2023								0
Wednesday	5/04/2023								0
Thursday	6/04/2023								0
Friday	7/04/2023								3
Saturday	8/04/2023								0
Sunday	9/04/2023								0
Monday	10/04/2023								0
Tuesday	11/04/2023	7.1	7.1	7.1	7	5	6	6.7	0
Wednesday	12/04/2023								1
Thursday	13/04/2023								24
Friday	14/04/2023	7.5	6.9	7.1	6	5	5	37.3	1
Saturday	15/04/2023								0
Sunday	16/04/2023								0
Monday	17/04/2023								0
Tuesday	18/04/2023								0
Wednesday	19/04/2023								0
Thursday	20/04/2023	7.3	7.3	7.3	11	7	9	22.0	9
Friday	21/04/2023								0
Saturday	22/04/2023								0
Sunday	23/04/2023								2
Monday	24/04/2023	6.8	6.8	6.8	12	12	12	2.4	1
Tuesday	25/04/2023								0
Wednesday	26/04/2023								0
Thursday	27/04/2023								0
Friday	28/04/2023								0
Saturday	29/04/2023								8
Sunday	30/04/2023								1
Monthly Results		7.9	6.8	7.1	12	4	7	102	61

Environmental Monitoring Data:- EPA License Number 549 **May 2023**
 Site Name: IXOM Operations Pty Ltd
 Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
 The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: LDP2 and LDP 4

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Monday	1/05/2023	7	5	6
Tuesday	2/05/2023	8	5	6
Wednesday	3/05/2023	8	5	6
Thursday	4/05/2023	7	5	6
Friday	5/05/2023	7	5	6
Saturday	6/05/2023	7	5	6
Sunday	7/05/2023	6	4	5
Monday	8/05/2023	5	5	5
Tuesday	9/05/2023	6	5	5
Wednesday	10/05/2023	6	5	5
Thursday	11/05/2023	6	5	5
Friday	12/05/2023	7	5	6
Saturday	13/05/2023	7	5	6
Sunday	14/05/2023	7	5	5
Monday	15/05/2023	6	5	5
Tuesday	16/05/2023	7	5	5
Wednesday	17/05/2023	7	5	5
Thursday	18/05/2023	5	4	5
Friday	19/05/2023	5	4	5
Saturday	20/05/2023	6	4	5
Sunday	21/05/2023	6	4	5
Monday	22/05/2023	6	5	5
Tuesday	23/05/2023	6	5	5
Wednesday	24/05/2023	7	5	5
Thursday	25/05/2023	7	5	6
Friday	26/05/2023	6	5	5
Saturday	27/05/2023	6	5	5
Sunday	28/05/2023	6	5	5
Monday	29/05/2023	6	5	5
Tuesday	30/05/2023	7	5	6
Wednesday	31/05/2023	7	5	6
Monthly Results		8	4	5

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Monday	1/05/2023	7.0	6.8	6.9	6	6	6	11.9	0
Tuesday	2/05/2023								0
Wednesday	3/05/2023								0
Thursday	4/05/2023								0
Friday	5/05/2023								0
Saturday	6/05/2023								0
Sunday	7/05/2023								4
Monday	8/05/2023	7.0	7.0	7.0	6	6	6	9.5	0
Tuesday	9/05/2023								0
Wednesday	10/05/2023								0
Thursday	11/05/2023								0
Friday	12/05/2023								0
Saturday	13/05/2023								0
Sunday	14/05/2023								17
Monday	15/05/2023	8.1	7.0	7.7	11	11	11	12.7	0
Tuesday	16/05/2023								10
Wednesday	17/05/2023	7.7	6.8	7.3	12	12	12	1.5	10
Thursday	18/05/2023								0
Friday	19/05/2023								0
Saturday	20/05/2023								0
Sunday	21/05/2023								0
Monday	22/05/2023								0
Tuesday	23/05/2023	7.0	7.0	7.0	15	15	15	1.1	0
Wednesday	24/05/2023								0
Thursday	25/05/2023								0
Friday	26/05/2023								0
Saturday	27/05/2023								0
Sunday	28/05/2023								0
Monday	29/05/2023								0
Tuesday	30/05/2023								0
Wednesday	31/05/2023								0
Monthly Results		8.1	6.8	7.2	15	6	10	37	41

Environmental Monitoring Data:- EPA License Number 549 **June 2023**
Site Name: IXOM Operations Pty Ltd
Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: **LDP2 and LDP 4**

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Thursday	1/06/2023	8	6	7
Friday	2/06/2023	7	6	6
Saturday	3/06/2023	7	6	6
Sunday	4/06/2023	6	5	5
Monday	5/06/2023	6	5	5
Tuesday	6/06/2023	6	5	6
Wednesday	7/06/2023	7	5	6
Thursday	8/06/2023	6	5	6
Friday	9/06/2023	7	5	5
Saturday	10/06/2023	6	4	5
Sunday	11/06/2023	6	4	5
Monday	12/06/2023	7	5	5
Tuesday	13/06/2023	7	5	5
Wednesday	14/06/2023	7	5	6
Thursday	15/06/2023	6	4	5
Friday	16/06/2023	6	5	5
Saturday	17/06/2023	7	5	5
Sunday	18/06/2023	6	5	5
Monday	19/06/2023	6	5	5
Tuesday	20/06/2023	5	4	5
Wednesday	21/06/2023	6	5	5
Thursday	22/06/2023	6	5	5
Friday	23/06/2023	6	5	5
Saturday	24/06/2023	6	5	5
Sunday	25/06/2023	6	5	5
Monday	26/06/2023	6	5	5
Tuesday	27/06/2023	6	5	5
Wednesday	28/06/2023	6	5	5
Thursday	29/06/2023	5	5	5
Friday	30/06/2023	5	5	5
Monthly Results		8	4	5

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Thursday	1/06/2023								0
Friday	2/06/2023								0
Saturday	3/06/2023								0
Sunday	4/06/2023								0
Monday	5/06/2023								0
Tuesday	6/06/2023								0
Wednesday	7/06/2023								0
Thursday	8/06/2023								0
Friday	9/06/2023								0
Saturday	10/06/2023								0
Sunday	11/06/2023								0
Monday	12/06/2023								0
Tuesday	13/06/2023								0
Wednesday	14/06/2023								0
Thursday	15/06/2023								0
Friday	16/06/2023								0
Saturday	17/06/2023								0
Sunday	18/06/2023								0
Monday	19/06/2023								0
Tuesday	20/06/2023								0
Wednesday	21/06/2023								0
Thursday	22/06/2023								0
Friday	23/06/2023	7.0	7.0	7.0	4	4	4	3.0	0
Saturday	24/06/2023								0
Sunday	25/06/2023								0
Monday	26/06/2023								0
Tuesday	27/06/2023								0
Wednesday	28/06/2023								1
Thursday	29/06/2023	8.1	8.1	8.1	4	4	4	1.9	0
Friday	30/06/2023								0
Monthly Results		8.1	7.0	7.5	4	4	4	5	1

Environmental Monitoring Data:- EPA License Number 549 **July 2023**
 Site Name: IXOM Operations Pty Ltd
 Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
 The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: LDP2 and LDP 4

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Saturday	1/07/2023	6	5	5
Sunday	2/07/2023	6	5	5
Monday	3/07/2023	6	5	5
Tuesday	4/07/2023	8	5	6
Wednesday	5/07/2023	10	6	7
Thursday	6/07/2023	7	5	6
Friday	7/07/2023	7	6	6
Saturday	8/07/2023	7	6	6
Sunday	9/07/2023	7	6	6
Monday	10/07/2023	8	6	7
Tuesday	11/07/2023	8	6	6
Wednesday	12/07/2023	8	6	7
Thursday	13/07/2023	8	6	7
Friday	14/07/2023	8	6	7
Saturday	15/07/2023	8	6	7
Sunday	16/07/2023	7	6	6
Monday	17/07/2023	7	6	6
Tuesday	18/07/2023	8	6	6
Wednesday	19/07/2023	6	5	6
Thursday	20/07/2023	7	5	6
Friday	21/07/2023	7	6	6
Saturday	22/07/2023	6	5	6
Sunday	23/07/2023	7	6	6
Monday	24/07/2023	7	5	6
Tuesday	25/07/2023	7	5	6
Wednesday	26/07/2023	6	5	6
Thursday	27/07/2023	7	6	7
Friday	28/07/2023	8	6	6
Saturday	29/07/2023	7	6	6
Sunday	30/07/2023	9	6	7
Monday	31/07/2023	8	6	6
Monthly Results		10	5	6

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L		1000kl per day Max	Wet Weather >10mm/24hrs	
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Saturday	1/07/2023								0
Sunday	2/07/2023								0
Monday	3/07/2023								0
Tuesday	4/07/2023	7.3	7.3	7.3	5	5	5	3.2	0
Wednesday	5/07/2023								0
Thursday	6/07/2023								0
Friday	7/07/2023								0
Saturday	8/07/2023								0
Sunday	9/07/2023								0
Monday	10/07/2023								0
Tuesday	11/07/2023								0
Wednesday	12/07/2023								0
Thursday	13/07/2023								0
Friday	14/07/2023								0
Saturday	15/07/2023								0
Sunday	16/07/2023								0
Monday	17/07/2023								0
Tuesday	18/07/2023								0
Wednesday	19/07/2023								0
Thursday	20/07/2023								0
Friday	21/07/2023								0
Saturday	22/07/2023								0
Sunday	23/07/2023								3
Monday	24/07/2023	7.2	7.2	7.2	6	6	6	3.2	0
Tuesday	25/07/2023								0
Wednesday	26/07/2023								0
Thursday	27/07/2023								0
Friday	28/07/2023								0
Saturday	29/07/2023								0
Sunday	30/07/2023								0
Monday	31/07/2023								0
Monthly Results		7.3	7.2	7.3	6	5	6	6	3

Environmental Monitoring Data:- EPA License Number 549 **August 2023**
Site Name: IXOM Operations Pty Ltd
Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: **LDP2 and LDP 4**

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Tuesday	1/08/2023	7	5	6
Wednesday	2/08/2023	7	6	6
Thursday	3/08/2023	10	2	7
Friday	4/08/2023	9	7	8
Saturday	5/08/2023	8	7	7
Sunday	6/08/2023	7	7	7
Monday	7/08/2023	7	7	7
Tuesday	8/08/2023	8	6	7
Wednesday	9/08/2023	8	6	7
Thursday	10/08/2023	9	7	7
Friday	11/08/2023	8	7	7
Saturday	12/08/2023	9	6	7
Sunday	13/08/2023	7	7	7
Monday	14/08/2023	7	6	7
Tuesday	15/08/2023	7	6	7
Wednesday	16/08/2023	7	6	7
Thursday	17/08/2023	7	6	7
Friday	18/08/2023	8	6	7
Saturday	19/08/2023	7	6	7
Sunday	20/08/2023	8	6	6
Monday	21/08/2023	8	6	7
Tuesday	22/08/2023	8	6	7
Wednesday	23/08/2023	9	6	7
Thursday	24/08/2023	7	6	7
Friday	25/08/2023	8	6	7
Saturday	26/08/2023	8	6	7
Sunday	27/08/2023	8	6	7
Monday	28/08/2023	8	6	7
Tuesday	29/08/2023	8	7	7
Wednesday	30/08/2023	9	7	8
Thursday	31/08/2023	8	6	7
Monthly Results		10	2	7

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL)	Rainfall per day - 24hrs (mm)
Tuesday	1/08/2023								0
Wednesday	2/08/2023	7.4	7.4	7.4	5	5	5	7.1	3
Thursday	3/08/2023								0
Friday	4/08/2023								0
Saturday	5/08/2023								16
Sunday	6/08/2023								11
Monday	7/08/2023	7.4	7.2	7.3	4	3	4	15.1	0
Tuesday	8/08/2023								0
Wednesday	9/08/2023								0
Thursday	10/08/2023								0
Friday	11/08/2023								0
Saturday	12/08/2023								0
Sunday	13/08/2023								1
Monday	14/08/2023	8.2	6.8	7.2	4	3	4	33.9	17
Tuesday	15/08/2023								0
Wednesday	16/08/2023	7.5	6.8	7.2	3	3	3	10.4	6
Thursday	17/08/2023								2
Friday	18/08/2023	7.8	7.8	7.8	4	4	4	3.4	2
Saturday	19/08/2023								0
Sunday	20/08/2023								0
Monday	21/08/2023								0
Tuesday	22/08/2023								3
Wednesday	23/08/2023								1
Thursday	24/08/2023	6.9	6.9	6.9	4	4	4	3.0	0
Friday	25/08/2023								0
Saturday	26/08/2023								0
Sunday	27/08/2023								0
Monday	28/08/2023								7
Tuesday	29/08/2023	7.7	7.0	7.3	4	4	4	5.8	0
Wednesday	30/08/2023								2
Thursday	31/08/2023								0
Monthly Results		8.2	6.8	7.3	5	3	4	79	71

Environmental Monitoring Data:- EPA License Number 549 **September 2023**
Site Name: IXOM Operations Pty Ltd
Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505
The site has two active Licensed Discharge Points as detailed in the monitoring data tables below: **LDP2 and LDP 4**

Licensed Discharge Point 2: SMBS Stack				
Limits:		SO2 Max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Friday	1/09/2023	7	6	7
Saturday	2/09/2023	8	6	7
Sunday	3/09/2023	8	6	7
Monday	4/09/2023	7	2	4
Tuesday	5/09/2023	3	1	2
Wednesday	6/09/2023	3	1	2
Thursday	7/09/2023	4	1	3
Friday	8/09/2023	3	1	2
Saturday	9/09/2023	2	0	1
Sunday	10/09/2023	2	0	1
Monday	11/09/2023	3	0	2
Tuesday	12/09/2023	3	1	2
Wednesday	13/09/2023	3	1	2
Thursday	14/09/2023	4	1	2
Friday	15/09/2023	4	1	2
Saturday	16/09/2023	7	1	4
Sunday	17/09/2023	5	2	4
Monday	18/09/2023	5	2	3
Tuesday	19/09/2023	7	2	4
Wednesday	20/09/2023	7	3	5
Thursday	21/09/2023	3	1	2
Friday	22/09/2023	3	1	2
Saturday	23/09/2023	3	1	2
Sunday	24/09/2023	3	1	2
Monday	25/09/2023	4	2	2
Tuesday	26/09/2023	4	2	2
Wednesday	27/09/2023	4	2	3
Thursday	28/09/2023	3	1	2
Friday	29/09/2023	4	1	2
Saturday	30/09/2023	3	1	2
Monthly Results		8	0	3

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/L Wet weather: 150mg/L			1000kl per day Max	Wet Weather >10mm/24hrs
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl)	Rainfall per day - 24hrs (mm)
Friday	1/09/2023								0
Saturday	2/09/2023								0
Sunday	3/09/2023								0
Monday	4/09/2023								0
Tuesday	5/09/2023								0
Wednesday	6/09/2023								0
Thursday	7/09/2023								0
Friday	8/09/2023	7.4	7.0	7.2	6	4	5	6.7	7
Saturday	9/09/2023								0
Sunday	10/09/2023								0
Monday	11/09/2023								0
Tuesday	12/09/2023								0
Wednesday	13/09/2023								0
Thursday	14/09/2023								0
Friday	15/09/2023								0
Saturday	16/09/2023								0
Sunday	17/09/2023								0
Monday	18/09/2023								0
Tuesday	19/09/2023								0
Wednesday	20/09/2023								0
Thursday	21/09/2023								5
Friday	22/09/2023	7.3	6.6	6.9	4	3	4	14.8	12
Saturday	23/09/2023								0
Sunday	24/09/2023								0
Monday	25/09/2023								0
Tuesday	26/09/2023								3
Wednesday	27/09/2023	7.5	7.5	7.5	3	3	3	3.6	4
Thursday	28/09/2023	8.0	6.8	7.1	8	7	7	18.6	33
Friday	29/09/2023								0
Saturday	30/09/2023								0
Monthly Results		8.0	6.6	7.2	8	3	5	44	64