

**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 three Licensed Discharge Points as detailed in the monitoring data tables below: **LDP1, LDP2 and LDP 4**

**LDP1: SARP (Spent Acid Regeneration Plant) Stack**

**Description:** This is the large (80m) high concrete stack.  
**Pollutants Discharged:** This discharge point is licensed for discharge of Sulphur Dioxide (SO2) and Sulphur Trioxide (SO3)  
**Units Of Measure:** Both Sulphur Dioxide and Sulphur Trioxide are measured in mg/m3 (milligrams per cubic meter)  
**Monitoring Frequency: Sulphur Dioxide** - Continuous Monitoring, licensed in 1hr block averages.  
**Monitoring Frequency: Sulphur Trioxide** - Testing conducted three times per licence period  
**Discharge limits** for this point are maximum concentrations: **Sulphur Dioxide** 1hr average maximum is 2800 mg/m3  
**Sulphur Trioxide** maximum is 50 mg/m3 (minimum 1hr block average)  
 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. For **Sulphur Trioxide** the data presented is the result of the actual stack test and is reported against the actual day the test was conducted. There is a delay of several weeks between the test date and results being received.  
 The data in the below table is updated at two weekly intervals.

**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.  
 The data in the below table is updated at two weekly intervals.

**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.  
 This data is updated every two weeks.

**Yearly Environmental Monitoring Data Summary (EPA reporting period 1 October 2019 to 30 September 2020)**

LDP1: SARP Stack				LDP2: SMBS Stack				LDP4: Wastewater Discharge adjacent to T7									
SO2 max allowed		2800mg/m3		SO2 max allowed		559mg/m3		pH Max allowed		8.5		TSS Max allowed (Dry Weather)		40mg/L			
SO3 max allowed		50mg/m3						pH Min allowed		6.5		TSS Max Allowed (Wet Weather)		150mg/L			
												Max Monthly Volume discharged allowed:		28-31000 kL/mnth (1000kL/day)			
Month	SO2 Max (mg/m3)	SO2 Min (mg/m3)	SO2 Average (mg/m3)	SO3 result (mg/m3)	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-19	2106	530	1322	3	Oct-19	8	0	4	Oct-19	8.3	6.8	7.4	38	11	18	2208	54
Nov-19	2223	0	346		Nov-19	9	0	2	Nov-19	8.3	6.7	7.6	39	10	14	1254	18
Dec-19	0	0	0		Dec-19	97	0	29	Dec-19	8.3	6.8	8.0	25	9	14	554	4
Jan-20	0	0	0		Jan-20	56	3	9	Jan-20	8.3	6.9	8.0	28	9	15	818	75
Feb-20	2004	0	266		Feb-20	37	0	6	Feb-20	8.3	6.8	7.7	39	16	25	1840	459
Mar-20	2301	0	368		Mar-20	19	2	6	Mar-20	8.3	6.7	7.6	35	14	23	1258	62
Apr-20	2353	0	1029		Apr-20	11	3	6	Apr-20	8.3	6.8	7.7	28	9	15	1524	30
May-20	2230	0	479	16	May-20	12	1	4	May-20	8.3	6.7	7.4	38	3	11	2011	97
Jun-20	0	0	0		Jun-20	75	0	3	Jun-20	8.3	6.8	7.8	20	0	7	867	27
Jul-20	0	0	0		Jul-20	55	0	3	Jul-20	8.3	6.7	7.9	18	0	7	950	160
Aug-20	0	0	0		Aug-20	367	0	3	Aug-20	8.4	6.7	7.9	34	1	14	1045	257
Sep-20	2511	0	159		Sep-20	42	0	3	Sep-20	8.3	6.8	7.9	31	14	22	619	18
<b>Full Reporting Year Results</b>	<b>2511</b>	<b>0</b>	<b>331</b>	<b>10</b>	<b>367</b>	<b>0</b>	<b>7</b>	<b>8.4</b>	<b>6.7</b>	<b>7.7</b>	<b>39</b>	<b>0</b>	<b>15</b>	<b>14948</b>	<b>1261</b>		

Environmental Monitoring Data- EPA License Number 549

October 2019

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

SO3 sample details:

29/10 - sampling completed

13/11 - results received

26/11 - results published

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Tuesday	1/10/2019	1838	1005	1559		
Wednesday	2/10/2019	2029	1326	1676		
Thursday	3/10/2019	1766	1177	1472		
Friday	4/10/2019	1565	1165	1399		
Saturday	5/10/2019	1643	752	1177		
Sunday	6/10/2019	1703	1046	1254		
Monday	7/10/2019	1298	1010	1119		
Tuesday	8/10/2019	1310	889	1103		
Wednesday	9/10/2019	1100	1062	1081		
Thursday	10/10/2019	1511	1044	1219		
Friday	11/10/2019	1680	1382	1511		
Saturday	12/10/2019	1736	1316	1463		
Sunday	13/10/2019	1535	1150	1328		
Monday	14/10/2019	1746	1124	1397		
Tuesday	15/10/2019	1909	716	1300		
Wednesday	16/10/2019	1799	843	1277		
Thursday	17/10/2019	1943	905	1428		
Friday	18/10/2019	1943	1076	1408		
Saturday	19/10/2019	1924	530	1286		
Sunday	20/10/2019	1655	888	1272		
Monday	21/10/2019	1510	1018	1272		
Tuesday	22/10/2019	1397	690	1021		
Wednesday	23/10/2019	1639	986	1296		
Thursday	24/10/2019	1490	1002	1246		
Friday	25/10/2019	1611	955	1260		
Saturday	26/10/2019	1675	870	1265		
Sunday	27/10/2019	2106	856	1239		
Monday	28/10/2019	1501	1091	1335		
Tuesday	29/10/2019	1593	979	1327	3	
Wednesday	30/10/2019	1750	1437	1562		
Thursday	31/10/2019	1850	1018	1420		
<b>Monthly Results</b>		<b>2106</b>	<b>530</b>	<b>1322</b>	<b>3</b>	

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	1/10/2019	5	4	5
Wednesday	2/10/2019	6	4	5
Thursday	3/10/2019	6	4	5
Friday	4/10/2019	6	4	5
Saturday	5/10/2019	5	4	4
Sunday	6/10/2019	6	5	5
Monday	7/10/2019	7	5	6
Tuesday	8/10/2019	6	4	5
Wednesday	9/10/2019	5	4	4
Thursday	10/10/2019	6	4	5
Friday	11/10/2019	5	2	3
Saturday	12/10/2019	3	2	2
Sunday	13/10/2019	4	2	2
Monday	14/10/2019	4	2	3
Tuesday	15/10/2019	6	2	5
Wednesday	16/10/2019	8	4	6
Thursday	17/10/2019	8	5	6
Friday	18/10/2019	6	1	3
Saturday	19/10/2019	4	0	2
Sunday	20/10/2019	3	1	2
Monday	21/10/2019	4	1	2
Tuesday	22/10/2019	4	1	3
Wednesday	23/10/2019	4	3	3
Thursday	24/10/2019	4	2	3
Friday	25/10/2019	4	2	3
Saturday	26/10/2019	4	1	3
Sunday	27/10/2019	3	0	2
Monday	28/10/2019	5	2	3
Tuesday	29/10/2019	5	2	3
Wednesday	30/10/2019	5	3	4
Thursday	31/10/2019	5	3	4
<b>Monthly Results</b>		<b>8</b>	<b>0</b>	<b>4</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/10/2019	7.3	6.8	6.9	27	13	21	64.1	0
Wednesday	2/10/2019	7.1	6.8	6.9	13	12	12	53.9	0
Thursday	3/10/2019	7.9	7.0	7.4	22	12	15	58.4	0
Friday	4/10/2019	8.1	7.1	7.7	26	23	25	63.0	0
Saturday	5/10/2019	7.8	6.8	7.0	27	22	24	94.1	0
Sunday	6/10/2019	8.2	7.4	7.9	24	22	23	57.9	13
Monday	7/10/2019	7.5	6.8	7.0	25	23	25	67.9	0
Tuesday	8/10/2019	7.4	6.8	6.9	27	25	26	95.3	0
Wednesday	9/10/2019	8.1	7.7	7.9	27	11	17	74.5	13
Thursday	10/10/2019	8.0	7.5	7.8	25	12	14	71.6	0
Friday	11/10/2019	8.3	6.8	7.7	24	12	14	94.1	2
Saturday	12/10/2019	8.0	7.4	7.8	14	11	12	103.0	17
Sunday	13/10/2019	7.8	7.0	7.3	22	13	18	67.0	9
Monday	14/10/2019	7.1	6.8	6.9	28	22	26	49.1	0
Tuesday	15/10/2019	7.2	6.8	6.9	29	23	25	60.2	0
Wednesday	16/10/2019	7.2	6.8	7.0	25	12	17	59.4	0
Thursday	17/10/2019	7.4	6.8	7.0	13	13	13	77.2	0
Friday	18/10/2019	7.9	6.8	7.0	24	13	15	69.2	0
Saturday	19/10/2019	8.1	7.9	8.0	38	23	28	70.3	0
Sunday	20/10/2019	8.0	7.2	7.5	23	20	22	74.4	0
Monday	21/10/2019	8.0	6.8	7.2	35	24	27	72.0	0
Tuesday	22/10/2019	8.3	8.1	8.2	34	28	30	78.3	0
Wednesday	23/10/2019	8.3	8.0	8.2	33	14	20	64.1	0
Thursday	24/10/2019	8.1	7.9	8.0	14	13	14	73.9	0
Friday	25/10/2019	8.2	7.4	7.9	14	13	13	75.4	0
Saturday	26/10/2019	8.2	7.5	7.9	14	13	13	72.1	0
Sunday	27/10/2019	7.8	7.3	7.6	14	12	13	73.9	0
Monday	28/10/2019	7.6	6.8	7.0	13	12	13	73.2	0
Tuesday	29/10/2019	6.9	6.8	6.8	13	12	12	68.8	0
Wednesday	30/10/2019	7.1	6.8	6.9	13	12	13	76.9	0
Thursday	31/10/2019	6.9	6.8	6.8	13	13	13	54.2	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>7.4</b>	<b>38</b>	<b>11</b>	<b>18</b>	<b>2208</b>	<b>54</b>

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Friday	1/11/2019	2150	955	1436		
Saturday	2/11/2019	2223	1242	1640		
Sunday	3/11/2019	1923	0	1128		
Monday	4/11/2019	0	0	0		
Tuesday	5/11/2019	0	0	0		
Wednesday	6/11/2019	16	0	1		
Thursday	7/11/2019	1738	417	1132		
Friday	8/11/2019	1645	0	1058		
Saturday	9/11/2019	0	0	0		
Sunday	10/11/2019	0	0	0		
Monday	11/11/2019	8	0	1		
Tuesday	12/11/2019	1223	0	260		
Wednesday	13/11/2019	1344	0	461		
Thursday	14/11/2019	1738	0	595		
Friday	15/11/2019	2033	628	1075		
Saturday	16/11/2019	1531	1125	1298		
Sunday	17/11/2019	1458	0	296		
Monday	18/11/2019	0	0	0		
Tuesday	19/11/2019	0	0	0		
Wednesday	20/11/2019	0	0	0		
Thursday	21/11/2019	0	0	0		
Friday	22/11/2019	0	0	0		
Saturday	23/11/2019	0	0	0		
Sunday	24/11/2019	0	0	0		
Monday	25/11/2019	0	0	0		
Tuesday	26/11/2019	0	0	0		
Wednesday	27/11/2019	0	0	0		
Thursday	28/11/2019	0	0	0		
Friday	29/11/2019	0	0	0		
Saturday	30/11/2019	0	0	0		
<b>Monthly Results</b>		<b>2223</b>	<b>0</b>	<b>346</b>		

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	1/11/2019	5	2	4
Saturday	2/11/2019	5	3	4
Sunday	3/11/2019	6	3	4
Monday	4/11/2019	5	2	4
Tuesday	5/11/2019	2	0	1
Wednesday	6/11/2019	3	0	1
Thursday	7/11/2019	2	1	2
Friday	8/11/2019	5	0	1
Saturday	9/11/2019	2	0	0
Sunday	10/11/2019	8	0	1
Monday	11/11/2019	2	0	1
Tuesday	12/11/2019	3	0	1
Wednesday	13/11/2019	7	0	2
Thursday	14/11/2019	4	2	3
Friday	15/11/2019	5	2	4
Saturday	16/11/2019	5	3	4
Sunday	17/11/2019	5	3	4
Monday	18/11/2019	5	3	4
Tuesday	19/11/2019	8	3	4
Wednesday	20/11/2019	9	2	4
Thursday	21/11/2019	5	3	4
Friday	22/11/2019	4	1	2
Saturday	23/11/2019	3	1	2
Sunday	24/11/2019	2	1	1
Monday	25/11/2019	3	1	2
Tuesday	26/11/2019	4	0	2
Wednesday	27/11/2019	2	0	1
Thursday	28/11/2019	3	2	2
Friday	29/11/2019	3	2	2
Saturday	30/11/2019	2	0	1
<b>Monthly Results</b>		<b>9</b>	<b>0</b>	<b>2</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/11/2019	8.0	6.8	7.2	39	13	28	64.1	0
Saturday	2/11/2019	7.8	6.8	7.2	38	21	25	75.0	0
Sunday	3/11/2019	8.3	6.8	7.0	31	24	26	75.1	0
Monday	4/11/2019	8.2	6.9	7.3	27	22	25	37.7	12
Tuesday	5/11/2019	8.2	6.7	7.3	25	22	23	25.5	0
Wednesday	6/11/2019	8.2	6.9	7.3	24	10	14	44.3	0
Thursday	7/11/2019	8.3	7.2	7.9	12	11	12	58.4	0
Friday	8/11/2019	7.1	6.8	6.8	12	11	12	54.1	0
Saturday	9/11/2019	8.2	6.9	7.6	12	11	12	39.4	0
Sunday	10/11/2019	8.3	7.9	8.1	11	10	11	39.6	0
Monday	11/11/2019	8.2	7.9	8.1	11	10	11	29.5	0
Tuesday	12/11/2019	8.2	8.2	8.2	10	10	10	39.6	0
Wednesday	13/11/2019	8.3	6.8	7.5	12	10	11	69.0	0
Thursday	14/11/2019	8.2	7.5	7.9	11	10	11	79.6	0
Friday	15/11/2019	7.8	6.8	7.4	12	10	11	74.2	0
Saturday	16/11/2019	7.8	6.8	7.2	12	10	11	72.9	0
Sunday	17/11/2019	7.0	6.7	6.9	11	10	10	42.0	0
Monday	18/11/2019	8.0	6.8	7.2	11	10	10	30.9	0
Tuesday	19/11/2019	8.1	6.8	7.2	10	10	10	19.6	0
Wednesday	20/11/2019	7.9	7.0	7.5	14	10	11	52.8	0
Thursday	21/11/2019	8.3	8.0	8.2	14	11	12	34.7	0
Friday	22/11/2019	8.3	8.2	8.2	11	10	11	24.8	0
Saturday	23/11/2019	8.3	8.2	8.3	11	10	10	24.9	0
Sunday	24/11/2019	8.2	8.0	8.2	12	11	12	21.9	0
Monday	25/11/2019	8.3	7.9	8.1	13	12	12	39.7	0
Tuesday	26/11/2019	8.1	7.4	7.8	14	11	12	25.1	4
Wednesday	27/11/2019	8.2	7.0	7.7	13	12	13	39.9	2
Thursday	28/11/2019	7.7	7.2	7.4	13	13	13	10.0	0
Friday	29/11/2019	8.2	7.7	7.9	12	11	11	9.9	0
Saturday	30/11/2019								0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.7</b>	<b>7.6</b>	<b>39</b>	<b>10</b>	<b>14</b>	<b>1254</b>	<b>18</b>

Environmental Monitoring Data:- EPA License Number 549

December 2019

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Sunday	1/12/2019	0	0	0		
Monday	2/12/2019	0	0	0		
Tuesday	3/12/2019	0	0	0		
Wednesday	4/12/2019	0	0	0		
Thursday	5/12/2019	0	0	0		
Friday	6/12/2019	0	0	0		
Saturday	7/12/2019	0	0	0		
Sunday	8/12/2019	0	0	0		
Monday	9/12/2019	0	0	0		
Tuesday	10/12/2019	0	0	0		
Wednesday	11/12/2019	0	0	0		
Thursday	12/12/2019	0	0	0		
Friday	13/12/2019	0	0	0		
Saturday	14/12/2019	0	0	0		
Sunday	15/12/2019	0	0	0		
Monday	16/12/2019	0	0	0		
Tuesday	17/12/2019	0	0	0		
Wednesday	18/12/2019	0	0	0		
Thursday	19/12/2019	0	0	0		
Friday	20/12/2019	0	0	0		
Saturday	21/12/2019	0	0	0		
Sunday	22/12/2019	0	0	0		
Monday	23/12/2019	0	0	0		
Tuesday	24/12/2019	0	0	0		
Wednesday	25/12/2019	0	0	0		
Thursday	26/12/2019	0	0	0		
Friday	27/12/2019	0	0	0		
Saturday	28/12/2019	0	0	0		
Sunday	29/12/2019	0	0	0		
Monday	30/12/2019	0	0	0		
Tuesday	31/12/2019	0	0	0		
<b>Monthly Results</b>		<b>0</b>	<b>0</b>	<b>0</b>		

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	1/12/2019	23	0	4
Monday	2/12/2019	3	0	0
Tuesday	3/12/2019	16	0	3
Wednesday	4/12/2019	69	15	33
Thursday	5/12/2019	95	20	57
Friday	6/12/2019	97	5	58
Saturday	7/12/2019	85	25	58
Sunday	8/12/2019	72	31	53
Monday	9/12/2019	60	18	38
Tuesday	10/12/2019	59	23	46
Wednesday	11/12/2019	64	21	41
Thursday	12/12/2019	49	24	39
Friday	13/12/2019	51	22	35
Saturday	14/12/2019	55	24	41
Sunday	15/12/2019	42	18	32
Monday	16/12/2019	49	18	35
Tuesday	17/12/2019	61	21	39
Wednesday	18/12/2019	42	15	27
Thursday	19/12/2019	36	16	27
Friday	20/12/2019	34	24	28
Saturday	21/12/2019	35	23	30
Sunday	22/12/2019	32	20	27
Monday	23/12/2019	25	12	19
Tuesday	24/12/2019	21	13	17
Wednesday	25/12/2019	25	16	21
Thursday	26/12/2019	80	10	21
Friday	27/12/2019	23	11	15
Saturday	28/12/2019	25	11	19
Sunday	29/12/2019	20	12	15
Monday	30/12/2019	17	11	15
Tuesday	31/12/2019	17	11	15
<b>Monthly Results</b>		<b>97</b>	<b>0</b>	<b>29</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/12/2019	7.9	7.7	7.8	13	13	13	19.9	0
Monday	2/12/2019	7.9	7.7	7.8	13	11	12	30.0	0
Tuesday	3/12/2019	8.3	8.1	8.2	11	9	10	34.5	0
Wednesday	4/12/2019	8.3	8.2	8.3	11	11	11	9.8	0
Thursday	5/12/2019	8.2	7.9	8.1	11	11	11	14.8	0
Friday	6/12/2019	8.3	7.9	8.1	11	10	11	9.9	0
Saturday	7/12/2019	8.2	8.1	8.2	12	10	11	19.9	0
Sunday	8/12/2019	8.0	6.8	7.3	11	9	11	19.7	0
Monday	9/12/2019	7.0	7.0	7.0	12	12	12	9.7	0
Tuesday	10/12/2019	7.9	6.9	7.3	13	11	12	39.2	0
Wednesday	11/12/2019	7.7	7.5	7.6	14	11	13	19.3	0
Thursday	12/12/2019	7.8	7.6	7.7	15	13	14	20.8	0
Friday	13/12/2019	8.3	8.2	8.3	25	14	21	24.2	0
Saturday	14/12/2019	8.3	8.1	8.2	20	18	19	9.7	1
Sunday	15/12/2019	8.3	8.2	8.3	21	19	20	9.7	0
Monday	16/12/2019	8.3	8.1	8.2	17	10	12	24.6	0
Tuesday	17/12/2019	8.3	8.2	8.3	11	10	11	9.8	0
Wednesday	18/12/2019	8.2	8.2	8.2	12	11	12	9.8	0
Thursday	19/12/2019	8.3	8.1	8.2	11	11	11	9.8	0
Friday	20/12/2019	8.2	6.8	7.8	20	12	14	24.7	0
Saturday	21/12/2019	8.2	8.2	8.2	18	18	18	9.8	0
Sunday	22/12/2019	8.3	8.2	8.3	19	17	18	9.7	0
Monday	23/12/2019	8.3	8.3	8.3	17	13	14	14.7	0
Tuesday	24/12/2019	8.3	8.3	8.3	13	11	12	14.7	0
Wednesday	25/12/2019	8.3	8.1	8.2	13	10	11	18.0	3
Thursday	26/12/2019	8.3	8.2	8.3	13	12	13	9.8	0
Friday	27/12/2019	8.2	8.0	8.1	12	12	12	24.7	0
Saturday	28/12/2019	8.3	8.2	8.2	19	18	19	9.8	0
Sunday	29/12/2019	8.3	8.2	8.2	22	18	20	19.6	0
Monday	30/12/2019	8.3	8.2	8.2	21	17	19	24.4	0
Tuesday	31/12/2019	8.3	8.1	8.2	18	16	17	29.7	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>8.0</b>	<b>25</b>	<b>9</b>	<b>14</b>	<b>554</b>	<b>4</b>

Environmental Monitoring Data:- EPA License Number 549

January 2020

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Wednesday	1/01/2020	0	0	0		
Thursday	2/01/2020	0	0	0		
Friday	3/01/2020	0	0	0		
Saturday	4/01/2020	0	0	0		
Sunday	5/01/2020	0	0	0		
Monday	6/01/2020	0	0	0		
Tuesday	7/01/2020	0	0	0		
Wednesday	8/01/2020	0	0	0		
Thursday	9/01/2020	0	0	0		
Friday	10/01/2020	0	0	0		
Saturday	11/01/2020	0	0	0		
Sunday	12/01/2020	0	0	0		
Monday	13/01/2020	0	0	0		
Tuesday	14/01/2020	0	0	0		
Wednesday	15/01/2020	0	0	0		
Thursday	16/01/2020	0	0	0		
Friday	17/01/2020	0	0	0		
Saturday	18/01/2020	0	0	0		
Sunday	19/01/2020	0	0	0		
Monday	20/01/2020	0	0	0		
Tuesday	21/01/2020	0	0	0		
Wednesday	22/01/2020	0	0	0		
Thursday	23/01/2020	0	0	0		
Friday	24/01/2020	0	0	0		
Saturday	25/01/2020	0	0	0		
Sunday	26/01/2020	0	0	0		
Monday	27/01/2020	0	0	0		
Tuesday	28/01/2020	0	0	0		
Wednesday	29/01/2020	0	0	0		
Thursday	30/01/2020	0	0	0		
Friday	31/01/2020	0	0	0		
<b>Monthly Results</b>		<b>0</b>	<b>0</b>	<b>0</b>		

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	1/01/2020	19	9	11
Thursday	2/01/2020	12	8	11
Friday	3/01/2020	56	7	16
Saturday	4/01/2020	14	8	11
Sunday	5/01/2020	22	8	10
Monday	6/01/2020	19	8	10
Tuesday	7/01/2020	16	7	13
Wednesday	8/01/2020	13	5	9
Thursday	9/01/2020	13	8	11
Friday	10/01/2020	13	7	11
Saturday	11/01/2020	10	6	7
Sunday	12/01/2020	17	5	7
Monday	13/01/2020	10	8	9
Tuesday	14/01/2020	10	6	8
Wednesday	15/01/2020	27	5	9
Thursday	16/01/2020	15	5	7
Friday	17/01/2020	13	4	8
Saturday	18/01/2020	11	4	7
Sunday	19/01/2020	6	4	5
Monday	20/01/2020	17	5	7
Tuesday	21/01/2020	16	4	6
Wednesday	22/01/2020	19	4	7
Thursday	23/01/2020	12	5	8
Friday	24/01/2020	8	5	6
Saturday	25/01/2020	9	4	5
Sunday	26/01/2020	12	4	9
Monday	27/01/2020	13	3	6
Tuesday	28/01/2020	10	5	8
Wednesday	29/01/2020	12	5	6
Thursday	30/01/2020	7	5	6
Friday	31/01/2020	15	6	9
<b>Monthly Results</b>		<b>56</b>	<b>3</b>	<b>9</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/01/2020	8.3	8.1	8.2	16	14	15	24.9	0
Thursday	2/01/2020	8.2	8.2	8.2	14	14	14	7.0	0
Friday	3/01/2020	8.2	8.2	8.2	18	14	16	10.2	0
Saturday	4/01/2020	8.2	8.1	8.1	18	16	17	14.8	0
Sunday	5/01/2020	8.3	8.1	8.2	20	17	19	34.6	0
Monday	6/01/2020	8.3	8.2	8.3	21	18	20	33.5	1
Tuesday	7/01/2020	8.3	8.2	8.3	19	12	15	14.7	0
Wednesday	8/01/2020	8.3	6.9	8.1	14	11	12	39.4	6
Thursday	9/01/2020	8.3	8.2	8.3	11	10	11	14.7	0
Friday	10/01/2020	8.3	8.2	8.2	11	10	10	14.8	0
Saturday	11/01/2020	8.3	8.2	8.3	11	10	10	14.7	0
Sunday	12/01/2020	8.3	8.2	8.3	10	9	10	19.8	1
Monday	13/01/2020	8.2	8.1	8.2	11	10	11	14.9	0
Tuesday	14/01/2020	8.3	8.2	8.2	11	10	10	14.8	0
Wednesday	15/01/2020	8.3	7.0	7.8	10	9	10	20.1	0
Thursday	16/01/2020	8.2	6.9	7.6	14	10	13	57.5	0
Friday	17/01/2020	8.2	6.9	7.4	16	12	13	108.5	16
Saturday	18/01/2020	7.5	6.9	7.3	15	12	14	31.3	31
Sunday	19/01/2020	7.9	7.7	7.8	11	10	10	14.8	2
Monday	20/01/2020	8.2	7.4	7.8	11	9	10	34.4	2
Tuesday	21/01/2020	7.8	7.6	7.7	19	11	15	18.7	4
Wednesday	22/01/2020	7.9	7.5	7.8	19	12	14	29.3	0
Thursday	23/01/2020	8.2	7.9	8.0	13	12	13	19.5	0
Friday	24/01/2020	8.3	8.0	8.1	16	12	13	31.4	0
Saturday	25/01/2020	8.3	7.0	7.5	20	17	18	34.6	12
Sunday	26/01/2020	7.0	6.9	6.9	21	19	20	9.8	0
Monday	27/01/2020	8.1	7.2	7.8	20	18	19	24.5	0
Tuesday	28/01/2020	8.3	7.9	8.2	22	20	21	19.6	0
Wednesday	29/01/2020	8.3	8.2	8.3	21	18	20	29.4	0
Thursday	30/01/2020	8.3	7.5	7.8	28	23	26	33.7	0
Friday	31/01/2020	8.3	7.9	8.0	22	19	20	27.6	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.9</b>	<b>8.0</b>	<b>28</b>	<b>9</b>	<b>15</b>	<b>818</b>	<b>75</b>

Environmental Monitoring Data- EPA License Number 549

February 2020

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Saturday	1/02/2020	0	0	0		
Sunday	2/02/2020	0	0	0		
Monday	3/02/2020	0	0	0		
Tuesday	4/02/2020	0	0	0		
Wednesday	5/02/2020	0	0	0		
Thursday	6/02/2020	0	0	0		
Friday	7/02/2020	0	0	0		
Saturday	8/02/2020	0	0	0		
Sunday	9/02/2020	0	0	0		
Monday	10/02/2020	0	0	0		
Tuesday	11/02/2020	35	0	5		
Wednesday	12/02/2020	0	0	0		
Thursday	13/02/2020	6	0	0		
Friday	14/02/2020	1861	0	113		
Saturday	15/02/2020	1862	0	107		
Sunday	16/02/2020	0	0	0		
Monday	17/02/2020	0	0	0		
Tuesday	18/02/2020	36	0	2		
Wednesday	19/02/2020	1486	0	185		
Thursday	20/02/2020	1642	676	1213		
Friday	21/02/2020	1827	0	832		
Saturday	22/02/2020	0	0	0		
Sunday	23/02/2020	0	0	0		
Monday	24/02/2020	1373	0	625		
Tuesday	25/02/2020	1585	633	990		
Wednesday	26/02/2020	1962	514	1218		
Thursday	27/02/2020	2004	0	494		
Friday	28/02/2020	1877	0	823		
Saturday	29/02/2020	1697	862	1108		
<b>Monthly Results</b>		<b>2004</b>	<b>0</b>	<b>266</b>		

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	1/02/2020	9	4	7
Sunday	2/02/2020	7	4	5
Monday	3/02/2020	20	3	6
Tuesday	4/02/2020	11	0	3
Wednesday	5/02/2020	12	3	5
Thursday	6/02/2020	15	3	5
Friday	7/02/2020	8	3	4
Saturday	8/02/2020	6	4	5
Sunday	9/02/2020	7	3	5
Monday	10/02/2020	37	4	8
Tuesday	11/02/2020	13	3	5
Wednesday	12/02/2020	9	3	4
Thursday	13/02/2020	11	2	3
Friday	14/02/2020	12	3	5
Saturday	15/02/2020	13	6	8
Sunday	16/02/2020	10	6	8
Monday	17/02/2020	10	6	7
Tuesday	18/02/2020	9	7	7
Wednesday	19/02/2020	12	4	7
Thursday	20/02/2020	11	8	10
Friday	21/02/2020	13	4	8
Saturday	22/02/2020	7	4	6
Sunday	23/02/2020	15	5	7
Monday	24/02/2020	11	6	8
Tuesday	25/02/2020	11	7	8
Wednesday	26/02/2020	10	6	8
Thursday	27/02/2020	11	4	7
Friday	28/02/2020	10	6	8
Saturday	29/02/2020	10	5	7
<b>Monthly Results</b>		<b>37</b>	<b>0</b>	<b>6</b>

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	1/02/2020	8.3	8.1	8.2	19	18	19	14.6	0
Sunday	2/02/2020	8.2	7.2	7.7	32	19	25	43.5	0
Monday	3/02/2020	8.3	6.8	8.0	27	20	22	34.2	17
Tuesday	4/02/2020	8.3	8.1	8.2	27	19	21	5.3	0
Wednesday	5/02/2020	8.3	8.2	8.3	30	23	27	23.9	0
Thursday	6/02/2020	8.3	7.0	8.0	32	25	29	35.5	0
Friday	7/02/2020	8.3	7.0	7.8	27	22	24	147.3	8
Saturday	8/02/2020	7.8	6.9	7.3	26	20	23	139.2	40
Sunday	9/02/2020	8.1	6.8	7.3	20	16	18	277.8	29
Monday	10/02/2020	8.3	7.0	7.5	25	16	19	282.3	151
Tuesday	11/02/2020	8.0	7.0	7.5	20	17	18	61.5	61
Wednesday	12/02/2020	8.3	7.5	8.1	27	20	25	46.5	0
Thursday	13/02/2020	8.3	6.9	8.1	29	21	23	87.8	6
Friday	14/02/2020	8.3	8.0	8.2	32	29	31	23.8	11
Saturday	15/02/2020	8.3	6.8	8.0	34	29	31	33.2	0
Sunday	16/02/2020	6.8	6.8	6.8	21	18	19	9.6	1
Monday	17/02/2020	7.3	6.8	6.8	28	18	21	76.4	124
Tuesday	18/02/2020	6.9	6.9	6.9	19	17	18	13.3	0
Wednesday	19/02/2020	8.1	6.9	7.4	25	16	19	111.4	10
Thursday	20/02/2020	8.3	8.1	8.3	32	23	27	43.7	0
Friday	21/02/2020	8.3	8.0	8.2	36	24	28	33.4	0
Saturday	22/02/2020	8.2	8.0	8.2	33	26	30	13.7	1
Sunday	23/02/2020	8.3	8.3	8.3	26	26	26	4.8	0
Monday	24/02/2020	8.2	7.0	7.4	38	21	27	14.7	0
Tuesday	25/02/2020	7.2	7.0	7.1	39	29	33	51.0	0
Wednesday	26/02/2020	8.1	6.8	7.3	36	25	31	35.4	0
Thursday	27/02/2020	8.3	6.8	7.4	38	30	33	53.8	0
Friday	28/02/2020	7.6	6.8	7.0	31	27	28	59.8	0
Saturday	29/02/2020	8.1	6.8	7.3	38	20	29	62.5	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>7.7</b>	<b>39</b>	<b>16</b>	<b>25</b>	<b>1840</b>	<b>459</b>

Environmental Monitoring Data:- EPA License Number 549

March 2020

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Sunday	1/03/2020	1368	887	1155		
Monday	2/03/2020	1624	968	1351		
Tuesday	3/03/2020	2301	0	998		
Wednesday	4/03/2020	1762	0	674		
Thursday	5/03/2020	2060	0	577		
Friday	6/03/2020	1335	0	426		
Saturday	7/03/2020	0	0	0		
Sunday	8/03/2020	0	0	0		
Monday	9/03/2020	0	0	0		
Tuesday	10/03/2020	0	0	0		
Wednesday	11/03/2020	0	0	0		
Thursday	12/03/2020	0	0	0		
Friday	13/03/2020	28	0	2		
Saturday	14/03/2020	2261	340	1451		
Sunday	15/03/2020	2029	0	1139		
Monday	16/03/2020	1695	0	457		
Tuesday	17/03/2020	0	0	0		
Wednesday	18/03/2020	0	0	0		
Thursday	19/03/2020	0	0	0		
Friday	20/03/2020	0	0	0		
Saturday	21/03/2020	0	0	0		
Sunday	22/03/2020	0	0	0		
Monday	23/03/2020	0	0	0		
Tuesday	24/03/2020	0	0	0		
Wednesday	25/03/2020	0	0	0		
Thursday	26/03/2020	0	0	0		
Friday	27/03/2020	0	0	0		
Saturday	28/03/2020	0	0	0		
Sunday	29/03/2020	1607	0	507		
Monday	30/03/2020	1605	666	1241		
Tuesday	31/03/2020	1688	1179	1418		
<b>Monthly Results</b>		<b>2301</b>	<b>0</b>	<b>368</b>		

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	1/03/2020	10	7	8
Monday	2/03/2020	12	7	10
Tuesday	3/03/2020	11	6	8
Wednesday	4/03/2020	12	9	10
Thursday	5/03/2020	12	5	8
Friday	6/03/2020	11	4	7
Saturday	7/03/2020	15	3	5
Sunday	8/03/2020	14	3	5
Monday	9/03/2020	5	2	4
Tuesday	10/03/2020	5	2	4
Wednesday	11/03/2020	7	3	5
Thursday	12/03/2020	7	4	6
Friday	13/03/2020	7	4	6
Saturday	14/03/2020	9	4	6
Sunday	15/03/2020	11	4	7
Monday	16/03/2020	8	3	6
Tuesday	17/03/2020	8	4	6
Wednesday	18/03/2020	7	3	5
Thursday	19/03/2020	7	4	5
Friday	20/03/2020	8	5	7
Saturday	21/03/2020	11	4	6
Sunday	22/03/2020	8	5	7
Monday	23/03/2020	6	3	5
Tuesday	24/03/2020	19	3	6
Wednesday	25/03/2020	6	4	5
Thursday	26/03/2020	10	3	5
Friday	27/03/2020	6	3	4
Saturday	28/03/2020	9	3	4
Sunday	29/03/2020	7	3	5
Monday	30/03/2020	7	5	6
Tuesday	31/03/2020	7	5	6
<b>Monthly Results</b>		<b>19</b>	<b>2</b>	<b>6</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/03/2020	7.6	6.8	7.1	20	19	19	54.3	0
Monday	2/03/2020	8.3	7.5	8.0	19	18	19	62.0	0
Tuesday	3/03/2020	8.2	6.9	7.5	27	19	21	49.7	0
Wednesday	4/03/2020	8.2	7.2	7.8	28	25	26	86.8	0
Thursday	5/03/2020	8.3	7.1	7.7	28	25	26	80.5	9
Friday	6/03/2020	7.6	6.7	7.0	26	25	26	41.5	13
Saturday	7/03/2020	8.3	7.2	7.9	31	24	27	51.5	0
Sunday	8/03/2020	7.4	6.8	7.1	32	22	27	70.7	6
Monday	9/03/2020	8.0	7.3	7.6	35	33	34	22.3	3
Tuesday	10/03/2020	8.2	7.6	8.0	35	29	31	32.9	1
Wednesday	11/03/2020	7.8	6.8	7.2	33	24	27	25.3	1
Thursday	12/03/2020	6.9	6.8	6.8	35	24	28	24.3	0
Friday	13/03/2020	7.2	6.9	7.1	28	26	27	19.8	0
Saturday	14/03/2020	8.1	7.0	7.6	33	24	28	61.7	0
Sunday	15/03/2020	8.2	6.8	7.5	32	26	29	61.8	9
Monday	16/03/2020	8.3	7.1	8.1	32	28	30	47.9	0
Tuesday	17/03/2020	8.2	7.4	8.1	27	25	26	34.7	0
Wednesday	18/03/2020	8.3	8.2	8.3	26	17	21	13.6	2
Thursday	19/03/2020	8.3	8.2	8.2	19	18	18	23.7	0
Friday	20/03/2020	8.3	8.3	8.3	20	18	19	24.3	0
Saturday	21/03/2020	8.3	8.2	8.3	17	16	17	29.6	0
Sunday	22/03/2020	8.3	7.1	7.9	19	17	18	22.7	0
Monday	23/03/2020	6.8	6.8	6.8	18	16	17	19.3	1
Tuesday	24/03/2020	8.1	6.8	7.2	26	16	23	34.3	0
Wednesday	25/03/2020	8.3	7.0	7.8	26	18	22	39.4	0
Thursday	26/03/2020	7.6	6.9	7.1	20	17	19	51.8	5
Friday	27/03/2020	7.8	7.0	7.4	17	16	16	24.5	10
Saturday	28/03/2020	8.0	7.6	7.9	16	15	16	16.4	0
Sunday	29/03/2020	8.0	7.6	7.8	15	14	14	30.4	0
Monday	30/03/2020	8.1	7.1	7.6	17	14	16	52.8	2
Tuesday	31/03/2020	8.0	6.8	7.3	18	17	17	47.8	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.7</b>	<b>7.6</b>	<b>35</b>	<b>14</b>	<b>23</b>	<b>1258</b>	<b>62</b>

Environmental Monitoring Data:- EPA License Number 549

April 2020

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Wednesday	1/04/2020	1812	0	919		
Thursday	2/04/2020	1683	0	347		
Friday	3/04/2020	1511	1054	1285		
Saturday	4/04/2020	1712	860	1264		
Sunday	5/04/2020	1536	870	1289		
Monday	6/04/2020	1698	1178	1428		
Tuesday	7/04/2020	1882	1012	1544		
Wednesday	8/04/2020	1925	1072	1654		
Thursday	9/04/2020	2002	1205	1441		
Friday	10/04/2020	1476	0	640		
Saturday	11/04/2020	1809	398	1117		
Sunday	12/04/2020	2123	1108	1476		
Monday	13/04/2020	2061	1030	1404		
Tuesday	14/04/2020	1795	1008	1356		
Wednesday	15/04/2020	2299	866	1293		
Thursday	16/04/2020	2353	1013	1584		
Friday	17/04/2020	2048	780	1310		
Saturday	18/04/2020	2220	659	1357		
Sunday	19/04/2020	1560	1249	1423		
Monday	20/04/2020	1770	1002	1292		
Tuesday	21/04/2020	1572	1127	1322		
Wednesday	22/04/2020	1384	1120	1252		
Thursday	23/04/2020	1541	828	1052		
Friday	24/04/2020	1004	0	104		
Saturday	25/04/2020	0	0	0		
Sunday	26/04/2020	0	0	0		
Monday	27/04/2020	0	0	0		
Tuesday	28/04/2020	0	0	0		
Wednesday	29/04/2020	1207	0	493		
Thursday	30/04/2020	1598	998	1216		
<b>Monthly Results</b>		<b>2353</b>	<b>0</b>	<b>1029</b>		

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	1/04/2020	7	3	5
Thursday	2/04/2020	8	3	5
Friday	3/04/2020	8	5	7
Saturday	4/04/2020	8	3	6
Sunday	5/04/2020	7	3	5
Monday	6/04/2020	8	5	6
Tuesday	7/04/2020	7	5	6
Wednesday	8/04/2020	8	5	6
Thursday	9/04/2020	9	5	7
Friday	10/04/2020	11	5	7
Saturday	11/04/2020	10	5	7
Sunday	12/04/2020	9	4	6
Monday	13/04/2020	9	6	8
Tuesday	14/04/2020	9	6	8
Wednesday	15/04/2020	10	7	8
Thursday	16/04/2020	9	6	7
Friday	17/04/2020	9	5	7
Saturday	18/04/2020	9	5	7
Sunday	19/04/2020	11	6	8
Monday	20/04/2020	10	6	8
Tuesday	21/04/2020	8	5	6
Wednesday	22/04/2020	9	5	7
Thursday	23/04/2020	7	4	6
Friday	24/04/2020	6	4	5
Saturday	25/04/2020	10	3	5
Sunday	26/04/2020	6	4	5
Monday	27/04/2020	6	4	5
Tuesday	28/04/2020	11	3	5
Wednesday	29/04/2020	7	3	5
Thursday	30/04/2020	6	3	4
<b>Monthly Results</b>		<b>11</b>	<b>3</b>	<b>6</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/04/2020	8.2	7.0	7.4	18	17	17	68.1	0
Thursday	2/04/2020	8.3	7.5	8.0	17	16	17	47.8	7
Friday	3/04/2020	8.3	7.5	8.1	17	16	17	81.4	4
Saturday	4/04/2020	8.1	6.8	7.4	16	15	15	53.2	1
Sunday	5/04/2020	8.3	7.2	7.7	18	15	17	49.7	1
Monday	6/04/2020	7.8	6.8	7.3	17	14	15	57.4	0
Tuesday	7/04/2020	7.6	6.9	7.3	15	14	15	29.8	0
Wednesday	8/04/2020	8.0	6.8	7.3	16	14	15	74.3	0
Thursday	9/04/2020	8.3	7.1	8.0	16	15	15	57.0	0
Friday	10/04/2020	8.3	7.1	8.0	16	15	15	50.9	0
Saturday	11/04/2020	8.3	8.0	8.2	15	15	15	48.3	8
Sunday	12/04/2020	8.3	7.1	7.7	15	14	14	53.0	0
Monday	13/04/2020	7.7	6.8	7.1	14	13	14	52.6	0
Tuesday	14/04/2020	7.6	6.9	7.1	14	13	14	52.5	0
Wednesday	15/04/2020	7.2	6.9	7.1	14	14	14	50.5	0
Thursday	16/04/2020	8.2	7.2	7.5	14	12	14	61.9	0
Friday	17/04/2020	7.4	7.3	7.4	23	15	19	53.4	0
Saturday	18/04/2020	8.1	7.4	7.7	28	21	26	46.6	0
Sunday	19/04/2020	8.2	8.2	8.2	21	16	18	54.2	0
Monday	20/04/2020	8.2	7.7	8.0	17	14	16	49.2	0
Tuesday	21/04/2020	7.7	6.9	7.3	14	13	14	48.0	0
Wednesday	22/04/2020	7.4	6.8	7.0	14	14	14	49.6	0
Thursday	23/04/2020	8.0	6.9	7.3	16	14	15	54.5	0
Friday	24/04/2020	8.3	8.0	8.2	20	16	17	39.7	0
Saturday	25/04/2020	8.3	8.0	8.2	17	16	16	29.7	0
Sunday	26/04/2020	8.3	8.0	8.2	16	14	15	29.5	0
Monday	27/04/2020	8.3	8.2	8.3	14	11	12	28.5	0
Tuesday	28/04/2020	8.3	8.1	8.2	11	10	11	29.8	0
Wednesday	29/04/2020	8.1	7.6	7.9	11	9	10	31.1	0
Thursday	30/04/2020	8.0	6.8	7.2	12	10	11	91.7	9
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>7.7</b>	<b>28</b>	<b>9</b>	<b>15</b>	<b>1524</b>	<b>30</b>



Environmental Monitoring Data:- EPA License Number 549

May 2020

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

SO3 sample details:

4/5 - sampling conducted

18/5 - results received

28/5 - results published

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information (sampling for SO <sub>3</sub> conducted three times per year )
Friday	1/05/2020	1670	1032	1250	16	see above
Saturday	2/05/2020	1408	0	1112		
Sunday	3/05/2020	1476	0	469		
Monday	4/05/2020	1350	1130	1241		
Tuesday	5/05/2020	1433	838	1171		
Wednesday	6/05/2020	1719	732	1265		
Thursday	7/05/2020	1468	0	1012		
Friday	8/05/2020	7	0	1		
Saturday	9/05/2020	33	0	2		
Sunday	10/05/2020	1590	0	479		
Monday	11/05/2020	1843	1036	1391		
Tuesday	12/05/2020	1674	0	506		
Wednesday	13/05/2020	0	0	0		
Thursday	14/05/2020	0	0	0		
Friday	15/05/2020	4	0	0		
Saturday	16/05/2020	1202	1	499		
Sunday	17/05/2020	1377	697	970		
Monday	18/05/2020	1520	591	964		
Tuesday	19/05/2020	1112	867	990		
Wednesday	20/05/2020	1215	0	328		
Thursday	21/05/2020	0	0	0		
Friday	22/05/2020	0	0	0		
Saturday	23/05/2020	0	0	0		
Sunday	24/05/2020	0	0	0		
Monday	25/05/2020	2230	0	486		
Tuesday	26/05/2020	2133	0	711		
Wednesday	27/05/2020	0	0	0		
Thursday	28/05/2020	0	0	0		
Friday	29/05/2020	0	0	0		
Saturday	30/05/2020	0	0	0		
Sunday	31/05/2020	0	0	0		
<b>Monthly Results</b>		<b>2230</b>	<b>0</b>	<b>479</b>	<b>16</b>	

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	1/05/2020	6	3	5
Saturday	2/05/2020	6	3	5
Sunday	3/05/2020	8	2	4
Monday	4/05/2020	7	4	5
Tuesday	5/05/2020	10	3	5
Wednesday	6/05/2020	9	3	6
Thursday	7/05/2020	5	2	3
Friday	8/05/2020	6	2	4
Saturday	9/05/2020	4	1	3
Sunday	10/05/2020	4	1	2
Monday	11/05/2020	4	1	2
Tuesday	12/05/2020	12	1	5
Wednesday	13/05/2020	7	3	5
Thursday	14/05/2020	5	2	4
Friday	15/05/2020	5	2	3
Saturday	16/05/2020	7	3	4
Sunday	17/05/2020	5	2	4
Monday	18/05/2020	6	3	4
Tuesday	19/05/2020	8	4	5
Wednesday	20/05/2020	8	4	6
Thursday	21/05/2020	4	2	3
Friday	22/05/2020	8	2	3
Saturday	23/05/2020	12	2	3
Sunday	24/05/2020	6	2	3
Monday	25/05/2020	6	3	4
Tuesday	26/05/2020	7	3	4
Wednesday	27/05/2020	5	3	4
Thursday	28/05/2020	7	1	3
Friday	29/05/2020	4	1	2
Saturday	30/05/2020	6	2	4
Sunday	31/05/2020	4	2	3
<b>Monthly Results</b>		<b>12</b>	<b>1</b>	<b>4</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/05/2020	7.5	6.8	7.1	21	10	16	61.1	13
Saturday	2/05/2020	7.3	6.8	7.0	21	12	18	49.3	0
Sunday	3/05/2020	7.8	6.8	7.3	17	13	15	39.5	0
Monday	4/05/2020	7.6	6.8	7.1	15	12	14	69.5	0
Tuesday	5/05/2020	7.9	6.8	7.2	21	14	17	74.4	0
Wednesday	6/05/2020	8.0	7.5	7.8	13	10	11	69.5	0
Thursday	7/05/2020	7.6	6.8	7.1	11	10	10	74.6	0
Friday	8/05/2020	8.3	7.3	7.9	38	13	18	72.5	0
Saturday	9/05/2020	8.3	6.8	7.8	13	11	11	51.6	0
Sunday	10/05/2020	8.3	7.8	8.1	11	10	10	38.4	0
Monday	11/05/2020	8.1	6.8	7.3	25	10	17	73.7	0
Tuesday	12/05/2020	7.5	6.8	7.0	22	18	20	52.5	0
Wednesday	13/05/2020	7.9	6.7	7.4	15	11	13	39.1	0
Thursday	14/05/2020	8.1	6.7	7.1	11	9	10	33.8	0
Friday	15/05/2020	7.9	6.8	7.3	9	6	7	55.1	0
Saturday	16/05/2020	8.0	6.8	7.3	7	5	6	62.9	3
Sunday	17/05/2020	8.0	7.0	7.3	11	8	11	84.2	0
Monday	18/05/2020	7.9	6.8	7.2	15	11	12	78.4	0
Tuesday	19/05/2020	7.8	6.8	7.3	11	10	11	64.5	2
Wednesday	20/05/2020	7.8	7.0	7.4	12	11	11	62.7	0
Thursday	21/05/2020	7.5	6.7	7.0	12	11	11	63.9	0
Friday	22/05/2020	8.1	6.7	7.1	11	5	7	190.2	53
Saturday	23/05/2020	8.0	6.9	7.4	9	5	7	55.2	25
Sunday	24/05/2020	8.3	7.8	8.1	13	9	11	58.6	0
Monday	25/05/2020	8.3	8.0	8.2	12	8	10	50.6	0
Tuesday	26/05/2020	8.3	6.8	7.5	13	6	9	59.1	0
Wednesday	27/05/2020	7.9	7.6	7.7	14	9	12	36.1	1
Thursday	28/05/2020	8.3	6.9	7.9	17	5	9	102.9	0
Friday	29/05/2020	7.4	6.8	7.0	5	3	4	138.9	0
Saturday	30/05/2020	7.4	7.2	7.2	4	4	4	19.9	0
Sunday	31/05/2020	8.0	7.4	7.7	5	3	4	28.3	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.7</b>	<b>7.4</b>	<b>38</b>	<b>3</b>	<b>11</b>	<b>2011</b>	<b>97</b>

Environmental Monitoring Data:- EPA License Number 549  
**June 2020**  
 Site Name: IXOM Operations Pty Ltd  
 Site Address: Gate 1, Foreshore Road, Port Kembla, NSW, 2505  
 The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Zero discharge 29th

Licensed Discharge Point 1 - SARP Stack						
Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information (sampling for SO <sub>3</sub> conducted three times per year )
Monday	1/06/2020	0	0	0		
Tuesday	2/06/2020	0	0	0		
Wednesday	3/06/2020	0	0	0		
Thursday	4/06/2020	0	0	0		
Friday	5/06/2020	0	0	0		
Saturday	6/06/2020	0	0	0		
Sunday	7/06/2020	0	0	0		
Monday	8/06/2020	0	0	0		
Tuesday	9/06/2020	0	0	0		
Wednesday	10/06/2020	0	0	0		
Thursday	11/06/2020	0	0	0		
Friday	12/06/2020	0	0	0		
Saturday	13/06/2020	0	0	0		
Sunday	14/06/2020	0	0	0		
Monday	15/06/2020	0	0	0		
Tuesday	16/06/2020	0	0	0		
Wednesday	17/06/2020	0	0	0		
Thursday	18/06/2020	0	0	0		
Friday	19/06/2020	0	0	0		
Saturday	20/06/2020	0	0	0		
Sunday	21/06/2020	0	0	0		
Monday	22/06/2020	0	0	0		
Tuesday	23/06/2020	0	0	0		
Wednesday	24/06/2020	0	0	0		
Thursday	25/06/2020	0	0	0		
Friday	26/06/2020	0	0	0		
Saturday	27/06/2020	0	0	0		
Sunday	28/06/2020	0	0	0		
Monday	29/06/2020	0	0	0		
Tuesday	30/06/2020	0	0	0		
<b>Monthly Results</b>		<b>0</b>	<b>0</b>	<b>0</b>		

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	1/06/2020	5	0	3
Tuesday	2/06/2020	75	0	6
Wednesday	3/06/2020	4	0	2
Thursday	4/06/2020	2	0	1
Friday	5/06/2020	6	0	1
Saturday	6/06/2020	4	0	1
Sunday	7/06/2020	2	0	1
Monday	8/06/2020	2	0	1
Tuesday	9/06/2020	3	0	1
Wednesday	10/06/2020	8	1	3
Thursday	11/06/2020	72	1	6
Friday	12/06/2020	3	2	2
Saturday	13/06/2020	4	2	3
Sunday	14/06/2020	5	1	2
Monday	15/06/2020	4	1	2
Tuesday	16/06/2020	41	2	9
Wednesday	17/06/2020	6	1	2
Thursday	18/06/2020	3	1	2
Friday	19/06/2020	3	3	3
Saturday	20/06/2020	8	3	4
Sunday	21/06/2020	5	1	3
Monday	22/06/2020	4	1	2
Tuesday	23/06/2020	4	1	3
Wednesday	24/06/2020	5	2	3
Thursday	25/06/2020	7	1	2
Friday	26/06/2020	5	1	2
Saturday	27/06/2020	4	1	2
Sunday	28/06/2020	4	2	3
Monday	29/06/2020	5	2	3
Tuesday	30/06/2020	6	1	3
<b>Monthly Results</b>		<b>75</b>	<b>0</b>	<b>3</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/06/2020	8.3	8.0	8.1	4	3	4	28.9	0
Tuesday	2/06/2020	8.0	7.2	7.7	5	4	5	28.5	0
Wednesday	3/06/2020	8.3	7.0	7.8	6	4	5	44.7	3
Thursday	4/06/2020	8.3	8.0	8.2	7	5	6	29.5	0
Friday	5/06/2020	8.2	7.5	7.9	6	6	6	39.6	0
Saturday	6/06/2020	8.3	8.1	8.2	1	1	1	34.6	0
Sunday	7/06/2020	8.2	7.7	8.0	0	0	0	34.7	0
Monday	8/06/2020	8.2	6.8	7.8	0	0	0	36.6	0
Tuesday	9/06/2020	8.2	7.2	7.8	0	0	0	51.0	0
Wednesday	10/06/2020	8.1	6.9	7.4	8	0	4	48.2	2
Thursday	11/06/2020	8.2	7.8	8.0	13	9	10	44.1	3
Friday	12/06/2020	7.9	6.8	7.4	13	5	9	59.5	0
Saturday	13/06/2020	7.8	7.2	7.6	10	6	8	26.9	5
Sunday	14/06/2020	7.9	6.9	7.6	9	6	7	35.4	0
Monday	15/06/2020	7.8	7.6	7.7	6	5	5	19.7	4
Tuesday	16/06/2020	7.9	7.8	7.8	4	3	3	24.7	0
Wednesday	17/06/2020	7.9	6.9	7.4	4	2	3	50.4	0
Thursday	18/06/2020	8.0	7.6	7.7	5	3	4	24.8	4
Friday	19/06/2020	8.2	7.6	7.9	11	5	7	49.4	0
Saturday	20/06/2020	8.3	8.2	8.3	19	10	13	34.3	0
Sunday	21/06/2020	8.3	7.9	8.1	20	13	17	21.6	0
Monday	22/06/2020	8.2	8.0	8.1	12	9	11	22.0	6
Tuesday	23/06/2020	8.0	8.0	8.0	9	6	8	9.8	0
Wednesday	24/06/2020	7.8	7.7	7.7	12	11	12	9.8	0
Thursday	25/06/2020	8.1	8.0	8.1	14	12	13	22.3	0
Friday	26/06/2020	8.0	7.8	7.9	14	12	13	12.7	0
Saturday	27/06/2020	7.8	7.6	7.7	11	10	10	14.8	0
Sunday	28/06/2020	8.0	8.0	8.0	11	11	11	5.0	0
Monday	29/06/2020								0
Tuesday	30/06/2020	7.6	7.6	7.6	8	8	8	3.0	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>7.8</b>	<b>20</b>	<b>0</b>	<b>7</b>	<b>867</b>	<b>27</b>

Environmental Monitoring Data:- EPA License Number 549

July 2020

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Wednesday	1/07/2020	0	0	0		
Thursday	2/07/2020	0	0	0		
Friday	3/07/2020	0	0	0		
Saturday	4/07/2020	0	0	0		
Sunday	5/07/2020	0	0	0		
Monday	6/07/2020	0	0	0		
Tuesday	7/07/2020	0	0	0		
Wednesday	8/07/2020	0	0	0		
Thursday	9/07/2020	0	0	0		
Friday	10/07/2020	0	0	0		
Saturday	11/07/2020	0	0	0		
Sunday	12/07/2020	0	0	0		
Monday	13/07/2020	0	0	0		
Tuesday	14/07/2020	0	0	0		
Wednesday	15/07/2020	0	0	0		
Thursday	16/07/2020	0	0	0		
Friday	17/07/2020	0	0	0		
Saturday	18/07/2020	0	0	0		
Sunday	19/07/2020	0	0	0		
Monday	20/07/2020	0	0	0		
Tuesday	21/07/2020	0	0	0		
Wednesday	22/07/2020	0	0	0		
Thursday	23/07/2020	0	0	0		
Friday	24/07/2020	0	0	0		
Saturday	25/07/2020	0	0	0		
Sunday	26/07/2020	0	0	0		
Monday	27/07/2020	0	0	0		
Tuesday	28/07/2020	0	0	0		
Wednesday	29/07/2020	0	0	0		
Thursday	30/07/2020	0	0	0		
Friday	31/07/2020	0	0	0		
<b>Monthly Results</b>		<b>0</b>	<b>0</b>	<b>0</b>		

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	1/07/2020	5	1	3
Thursday	2/07/2020	5	2	3
Friday	3/07/2020	55	2	11
Saturday	4/07/2020	5	1	3
Sunday	5/07/2020	5	2	3
Monday	6/07/2020	6	2	3
Tuesday	7/07/2020	7	2	3
Wednesday	8/07/2020	7	2	3
Thursday	9/07/2020	5	2	3
Friday	10/07/2020	6	3	4
Saturday	11/07/2020	11	3	4
Sunday	12/07/2020	5	2	3
Monday	13/07/2020	11	1	3
Tuesday	14/07/2020	8	2	4
Wednesday	15/07/2020	4	2	3
Thursday	16/07/2020	6	2	3
Friday	17/07/2020	4	2	3
Saturday	18/07/2020	11	1	3
Sunday	19/07/2020	5	0	2
Monday	20/07/2020	6	0	1
Tuesday	21/07/2020	3	0	1
Wednesday	22/07/2020	5	0	2
Thursday	23/07/2020	5	1	2
Friday	24/07/2020	47	0	4
Saturday	25/07/2020	4	2	3
Sunday	26/07/2020	3	2	2
Monday	27/07/2020	3	2	2
Tuesday	28/07/2020	3	1	2
Wednesday	29/07/2020	4	1	2
Thursday	30/07/2020	14	0	2
Friday	31/07/2020	8	0	2
<b>Monthly Results</b>		<b>55</b>	<b>0</b>	<b>3</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/07/2020	7.9	7.9	7.9	12	12	12	2.7	0
Thursday	2/07/2020	7.8	7.8	7.8	4	4	4	5.0	0
Friday	3/07/2020	7.9	7.8	7.8	9	5	7	9.9	0
Saturday	4/07/2020	7.9	7.8	7.9	10	8	9	9.9	0
Sunday	5/07/2020	8.0	7.9	8.0	9	6	8	9.9	0
Monday	6/07/2020	8.2	7.9	8.0	10	7	8	17.4	0
Tuesday	7/07/2020	8.1	7.6	7.9	18	9	13	24.5	0
Wednesday	8/07/2020	8.2	8.0	8.1	16	11	14	17.9	0
Thursday	9/07/2020	8.3	8.2	8.3	15	15	15	7.2	0
Friday	10/07/2020	8.3	8.3	8.3	18	14	16	7.2	0
Saturday	11/07/2020	8.3	8.2	8.2	15	14	15	7.3	0
Sunday	12/07/2020	8.3	7.7	8.0	10	5	8	45.5	4
Monday	13/07/2020	8.2	7.6	7.9	12	6	9	29.6	15
Tuesday	14/07/2020	8.2	7.8	8.0	10	7	8	40.3	2
Wednesday	15/07/2020	8.3	8.1	8.2	5	3	4	14.5	12
Thursday	16/07/2020	8.3	8.2	8.2	6	4	5	14.7	0
Friday	17/07/2020	8.2	8.0	8.1	7	5	6	13.3	0
Saturday	18/07/2020	8.2	8.0	8.1	14	6	10	12.2	0
Sunday	19/07/2020	8.2	8.1	8.2	14	11	13	7.2	0
Monday	20/07/2020	8.3	7.9	8.1	11	7	9	22.0	0
Tuesday	21/07/2020	8.0	8.0	8.0	7	7	7	4.9	0
Wednesday	22/07/2020	8.3	8.1	8.2	2	2	2	19.6	0
Thursday	23/07/2020	8.3	8.0	8.1	3	2	3	12.2	0
Friday	24/07/2020	8.3	8.0	8.1	5	3	4	19.5	0
Saturday	25/07/2020	8.0	8.0	8.0	5	4	5	9.7	0
Sunday	26/07/2020	8.1	7.1	7.4	5	1	3	136.3	8
Monday	27/07/2020	7.7	7.0	7.4	2	0	0	255.9	68
Tuesday	28/07/2020	7.6	6.9	7.3	1	0	0	127.7	39
Wednesday	29/07/2020	7.3	6.7	6.9	0	0	0	11.6	12
Thursday	30/07/2020	7.8	7.1	7.4	0	0	0	18.2	0
Friday	31/07/2020	8.0	6.7	7.2	1	0	0	16.5	0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.7</b>	<b>7.9</b>	<b>18</b>	<b>0</b>	<b>7</b>	<b>950</b>	<b>160</b>

Environmental Monitoring Data:- EPA License Number 549

August 2020

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO <sub>3</sub> conducted three times per year )
Saturday	1/08/2020	0	0	0		
Sunday	2/08/2020	0	0	0		
Monday	3/08/2020	0	0	0		
Tuesday	4/08/2020	0	0	0		
Wednesday	5/08/2020	0	0	0		
Thursday	6/08/2020	0	0	0		
Friday	7/08/2020	0	0	0		
Saturday	8/08/2020	0	0	0		
Sunday	9/08/2020	0	0	0		
Monday	10/08/2020	0	0	0		
Tuesday	11/08/2020	0	0	0		
Wednesday	12/08/2020	0	0	0		
Thursday	13/08/2020	0	0	0		
Friday	14/08/2020	0	0	0		
Saturday	15/08/2020	0	0	0		
Sunday	16/08/2020	0	0	0		
Monday	17/08/2020	0	0	0		
Tuesday	18/08/2020	0	0	0		
Wednesday	19/08/2020	0	0	0		
Thursday	20/08/2020	0	0	0		
Friday	21/08/2020	0	0	0		
Saturday	22/08/2020	0	0	0		
Sunday	23/08/2020	0	0	0		
Monday	24/08/2020	0	0	0		
Tuesday	25/08/2020	0	0	0		
Wednesday	26/08/2020	0	0	0		
Thursday	27/08/2020	0	0	0		
Friday	28/08/2020	0	0	0		
Saturday	29/08/2020	0	0	0		
Sunday	30/08/2020	0	0	0		
Monday	31/08/2020	0	0	0		
<b>Monthly Results</b>		<b>0</b>	<b>0</b>	<b>0</b>		

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	1/08/2020	17	0	4
Sunday	2/08/2020	5	0	1
Monday	3/08/2020	6	0	2
Tuesday	4/08/2020	8	0	2
Wednesday	5/08/2020	3	0	2
Thursday	6/08/2020	3	0	2
Friday	7/08/2020	8	2	4
Saturday	8/08/2020	4	2	3
Sunday	9/08/2020	6	2	3
Monday	10/08/2020	4	2	3
Tuesday	11/08/2020	5	2	3
Wednesday	12/08/2020	10	2	4
Thursday	13/08/2020	6	2	3
Friday	14/08/2020	4	1	3
Saturday	15/08/2020	4	0	2
Sunday	16/08/2020	3	0	1
Monday	17/08/2020	5	0	1
Tuesday	18/08/2020	7	0	2
Wednesday	19/08/2020	4	0	2
Thursday	20/08/2020	2	0	1
Friday	21/08/2020	4	0	1
Saturday	22/08/2020	2	0	1
Sunday	23/08/2020	8	0	2
Monday	24/08/2020	4	0	1
Tuesday	25/08/2020	4	0	1
Wednesday	26/08/2020	6	0	2
Thursday	27/08/2020	16	1	4
Friday	28/08/2020	11	0	4
Saturday	29/08/2020	5	0	2
Sunday	30/08/2020	367	1	24
Monday	31/08/2020	5	1	2
<b>Monthly Results</b>		<b>367</b>	<b>0</b>	<b>3</b>

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Limits:		pH Max 8.5	pH Min 6.5		TSS Max: Dry weather 40mg/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	1/08/2020	7.7	6.8	7.2	1	1	1	7.7	0
Sunday	2/08/2020	8.4	6.7	7.1	2	1	1	18.1	0
Monday	3/08/2020	8.0	7.8	7.9	3	2	2	19.6	0
Tuesday	4/08/2020	8.3	8.0	8.2	7	5	6	26.8	0
Wednesday	5/08/2020	8.3	8.2	8.2	22	10	18	23.5	0
Thursday	6/08/2020	8.3	8.1	8.2	19	14	16	18.0	0
Friday	7/08/2020	8.3	7.8	8.0	18	9	13	69.8	0
Saturday	8/08/2020	8.3	7.1	7.7	12	2	5	342.5	47
Sunday	9/08/2020	8.1	6.9	7.4	7	4	5	164.3	119
Monday	10/08/2020	8.2	7.6	7.9	9	4	6	32.8	71
Tuesday	11/08/2020	7.4	7.4	7.4	7	7	7	9.6	13
Wednesday	12/08/2020	8.2	8.2	8.2	8	7	8	9.7	0
Thursday	13/08/2020	8.2	8.1	8.1	13	11	12	23.3	0
Friday	14/08/2020	7.6	7.2	7.3	10	8	9	18.6	0
Saturday	15/08/2020	8.1	7.1	7.8	10	6	8	23.2	5
Sunday	16/08/2020	8.2	7.9	8.1	7	4	6	14.6	2
Monday	17/08/2020	8.3	8.1	8.2	9	4	7	14.8	0
Tuesday	18/08/2020	8.3	8.1	8.2	15	7	10	19.7	0
Wednesday	19/08/2020	8.3	8.1	8.2	29	25	27	9.7	0
Thursday	20/08/2020	8.3	8.2	8.2	28	23	25	17.1	0
Friday	21/08/2020	8.3	8.2	8.3	29	21	26	21.9	0
Saturday	22/08/2020	8.3	8.1	8.2	25	24	24	14.5	0
Sunday	23/08/2020	8.2	8.1	8.2	28	25	27	9.8	0
Monday	24/08/2020	8.3	8.2	8.2	34	20	26	14.4	0
Tuesday	25/08/2020	8.3	8.1	8.2	20	16	18	17.4	0
Wednesday	26/08/2020	7.9	7.9	7.9	17	17	17	9.8	0
Thursday	27/08/2020	8.1	7.7	7.9	17	16	17	7.5	0
Friday	28/08/2020	8.3	8.0	8.1	19	15	17	15.5	0
Saturday	29/08/2020	8.2	7.6	8.0	16	15	15	12.5	0
Sunday	30/08/2020	7.7	7.4	7.5	18	15	17	14.8	0
Monday	31/08/2020	7.8	6.8	7.1	29	25	27	23.6	0
<b>Monthly Results</b>		<b>8.4</b>	<b>6.7</b>	<b>7.9</b>	<b>34</b>	<b>1</b>	<b>14</b>	<b>1045</b>	<b>257</b>

Environmental Monitoring Data:- EPA License Number 549

September 2020

Site Name: IXOM Operations Pty Ltd

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

The site has three Licensed Discharge Points as detailed in the monitoring data tables below: LDP1, LDP2 and LDP 4

SO3 sample details:

26/9 - Scheduled sampling unable to proceed due to plant offline

Licensed Discharge Point 1 - SARP Stack

Limits:		SO2 Max: 2800mg/m3			SO3 Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result (mg/m3)	Sampling Information ( sampling for SO3 conducted three times per year )
Tuesday	1/09/2020	0	0	0		
Wednesday	2/09/2020	0	0	0		
Thursday	3/09/2020	0	0	0		
Friday	4/09/2020	0	0	0		
Saturday	5/09/2020	0	0	0		
Sunday	6/09/2020	0	0	0		
Monday	7/09/2020	0	0	0		
Tuesday	8/09/2020	0	0	0		
Wednesday	9/09/2020	0	0	0		
Thursday	10/09/2020	0	0	0		
Friday	11/09/2020	0	0	0		
Saturday	12/09/2020	0	0	0		
Sunday	13/09/2020	0	0	0		
Monday	14/09/2020	0	0	0		
Tuesday	15/09/2020	0	0	0		
Wednesday	16/09/2020	0	0	0		
Thursday	17/09/2020	0	0	0		
Friday	18/09/2020	0	0	0		
Saturday	19/09/2020	0	0	0		
Sunday	20/09/2020	0	0	0		
Monday	21/09/2020	0	0	0		
Tuesday	22/09/2020	0	0	0		
Wednesday	23/09/2020	1	1	1		
Thursday	24/09/2020	1	1	1		
Friday	25/09/2020	2287	1	577		
Saturday	26/09/2020	2375	0	1335		
Sunday	27/09/2020	2157	0	1054		
Monday	28/09/2020	2022	0	406		
Tuesday	29/09/2020	2352	1	1104		
Wednesday	30/09/2020	2511	0	287		
<b>Monthly Results</b>		<b>2511</b>	<b>0</b>	<b>159</b>		

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	1/09/2020	4	1	2
Wednesday	2/09/2020	18	1	4
Thursday	3/09/2020	10	1	4
Friday	4/09/2020	5	3	3
Saturday	5/09/2020	6	0	2
Sunday	6/09/2020	4	0	2
Monday	7/09/2020	31	0	3
Tuesday	8/09/2020	5	1	2
Wednesday	9/09/2020	3	1	1
Thursday	10/09/2020	3	0	2
Friday	11/09/2020	6	0	2
Saturday	12/09/2020	9	2	4
Sunday	13/09/2020	7	2	4
Monday	14/09/2020	6	2	4
Tuesday	15/09/2020	5	2	3
Wednesday	16/09/2020	16	2	4
Thursday	17/09/2020	11	2	5
Friday	18/09/2020	4	3	3
Saturday	19/09/2020	6	3	4
Sunday	20/09/2020	42	3	8
Monday	21/09/2020	6	2	4
Tuesday	22/09/2020	6	3	4
Wednesday	23/09/2020	6	2	3
Thursday	24/09/2020	9	1	3
Friday	25/09/2020	5	0	2
Saturday	26/09/2020	5	1	2
Sunday	27/09/2020	5	1	3
Monday	28/09/2020	6	1	2
Tuesday	29/09/2020	5	1	3
Wednesday	30/09/2020	4	0	1
<b>Monthly Results</b>		<b>42</b>	<b>0</b>	<b>3</b>

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	1/09/2020	7.5	6.9	7.2	26	23	24	12.5 0
Wednesday	2/09/2020	6.9	6.8	6.9	22	20	21	9.9 0
Thursday	3/09/2020	8.0	7.5	7.7	26	20	23	22.6 0
Friday	4/09/2020	8.2	8.2	8.2	25	25	25	8.0 0
Saturday	5/09/2020	8.3	8.1	8.1	27	24	25	12.3 0
Sunday	6/09/2020	8.3	8.1	8.2	28	24	26	9.8 0
Monday	7/09/2020	8.3	7.8	8.1	29	22	24	27.1 0
Tuesday	8/09/2020	8.3	8.0	8.2	28	28	28	9.7 0
Wednesday	9/09/2020	8.2	7.8	8.1	28	27	27	23.2 0
Thursday	10/09/2020	8.3	8.2	8.2	28	24	26	7.4 0
Friday	11/09/2020	8.3	8.1	8.2	24	22	23	17.2 0
Saturday	12/09/2020	8.2	7.7	8.0	22	20	21	17.2 0
Sunday	13/09/2020	8.2	8.2	8.2	23	23	23	4.9 0
Monday	14/09/2020	8.3	8.2	8.2	31	22	28	22.4 1
Tuesday	15/09/2020	8.3	8.2	8.2	29	25	26	7.5 0
Wednesday	16/09/2020	8.2	7.4	7.8	22	15	19	9.7 0
Thursday	17/09/2020	8.2	6.8	7.0	19	16	17	26.6 0
Friday	18/09/2020	7.3	6.8	7.1	18	18	18	12.5 3
Saturday	19/09/2020	7.7	6.9	7.3	18	16	17	8.7 0
Sunday	20/09/2020	8.1	7.4	7.7	16	15	16	20.7 0
Monday	21/09/2020	8.2	7.9	8.0	14	14	14	17.9 8
Tuesday	22/09/2020	8.3	7.8	8.0	16	14	15	29.8 0
Wednesday	23/09/2020	8.3	8.2	8.3	15	15	15	7.8 0
Thursday	24/09/2020	8.3	8.2	8.3	15	15	15	7.3 0
Friday	25/09/2020	8.2	7.5	8.0	25	15	18	22.3 0
Saturday	26/09/2020	8.3	7.7	8.1	25	21	23	32.7 6
Sunday	27/09/2020	8.3	8.0	8.2	27	23	25	59.2 0
Monday	28/09/2020	8.3	8.1	8.2	29	21	25	59.4 0
Tuesday	29/09/2020	8.2	7.9	8.1	30	25	27	54.7 0
Wednesday	30/09/2020	8.3	7.8	8.1	25	22	23	38.2 0
<b>Monthly Results</b>		<b>8.3</b>	<b>6.8</b>	<b>7.9</b>	<b>31</b>	<b>14</b>	<b>22</b>	<b>619</b> <b>18</b>