

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 - quarterly intervals (once every three months using USEPA method 8)
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 560 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 2017 to 30 September 2018)

LDP1: SARP Stack				LDP2: SMBS Stack			LDP4: Wastewater Discharge adjacent to T7										
SO2 max allowed		2800mg/m3		SO2 max allowed		560mg/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:		28000kl/mnth (28 day month)				
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 Discharged per month (kl)	Rainfall per month (mm)		
Oct-17	2107	0	576	46	Oct-17	26	1	5	Oct-17	8.3	6.8	7.8	34	7	14	1311	30
Nov-17	637	0	34		Nov-17	58	1	4	Nov-17	8.3	6.8	8.0	15	7	10	747	65
Dec-17	0	0	0		Dec-17	44	0	3	Dec-17	8.3	6.8	7.7	23	8	11	676	59
Jan-18	5	0	0		Jan-18	83	0	3	Jan-18	8.3	6.7	7.8	32	7	14	865	47
Feb-18	1406	0	29		Feb-18	169	0	8	Feb-18	8.3	6.8	7.9	35	7	12	774	88
Mar-18	2067	0	826		Mar-18	14	4	7	Mar-18	8.4	6.7	7.8	19	8	12	1623	25
Apr-18	1892	0	1034	27	Apr-18	101	2	7	Apr-18	8.3	6.6	7.6	39	8	14	1727	19
May-18	2237	0	945	10	May-18	15	3	8	May-18	8.4	6.7	7.4	35	8	16	1681	10
Jun-18	1801	0	1112		Jun-18	17	3	7	Jun-18	8.3	6.6	7.3	34	7	16	1978	145
Jul-18	1599	0	563		Jul-18	77	5	8	Jul-18	8.3	6.8	7.7	21	7	12	1267	3
Aug-18	1807	0	155		Aug-18	14	0	3	Aug-18	8.3	6.8	7.9	16	1	9	1328	22
Sep-18	1968	0	941		Sep-18	87	0	4	Sep-18	8.3	6.8	7.3	23	7	10	1469	32
Full Reporting Year Results	2237	0	518	28		169	0	5		8.4	6.6	7.7	39	1	12	15446	545

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack						
Current Month Data: Oct-17		SO ₂ Licensed Limit Max: 2800mg/m ³			SO ₃ Licensed Limit Max: 50mg/m ³	
Day	Date	SO ₂ Maximum (mg/m ³)	SO ₂ Minimum (mg/m ³)	SO ₂ Average (mg/m ³)	SO ₃ Result Required once per quarter (mg/m ³)	Sampling Information
Sunday	1/10/2017	1557	0	1039		
Monday	2/10/2017	1869	365	1097		
Tuesday	3/10/2017	1535	0	715		
Wednesday	4/10/2017	0	0	0		
Thursday	5/10/2017	0	0	0		
Friday	6/10/2017	0	0	0		
Saturday	7/10/2017	0	0	0		
Sunday	8/10/2017	0	0	0		
Monday	9/10/2017	0	0	0		
Tuesday	10/10/2017	0	0	0		
Wednesday	11/10/2017	393	0	19		
Thursday	12/10/2017	1281	0	274		
Friday	13/10/2017	1447	422	1029		
Saturday	14/10/2017	1373	630	929		
Sunday	15/10/2017	1373	940	1212		
Monday	16/10/2017	1481	702	1143		
Tuesday	17/10/2017	1489	858	1160		
Wednesday	18/10/2017	1580	740	1209		
Thursday	19/10/2017	1952	0	717		
Friday	20/10/2017	109	0	8		
Saturday	21/10/2017	2107	203	939		
Sunday	22/10/2017	1123	573	812		
Monday	23/10/2017	1130	500	835		
Tuesday	24/10/2017	758	289	594		
Wednesday	25/10/2017	916	41	506		
Thursday	26/10/2017	1051	348	711	46	Stack Test 26 Oct 2017, Results Received 16 Nov 2017, Results Published 22 Nov 2017
Friday	27/10/2017	1240	212	706		
Saturday	28/10/2017	931	161	615		
Sunday	29/10/2017	1341	517	875		
Monday	30/10/2017	747	18	419		
Tuesday	31/10/2017	773	6	293		
Monthly Results		2107	0	576	46	

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 560 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.

Licensed Discharge Point 2: SMBS Stack				
Current Month Data: Oct-17		SO ₂ Licensed Limit max: 560mg/m ³		
Day	Date	SO ₂ Maximum (mg/m ³)	SO ₂ Minimum (mg/m ³)	SO ₂ Average (mg/m ³)
Sunday	1/10/2017	4	1	2
Monday	2/10/2017	4	2	3
Tuesday	3/10/2017	7	4	4
Wednesday	4/10/2017	5	3	4
Thursday	5/10/2017	5	4	4
Friday	6/10/2017	6	3	5
Saturday	7/10/2017	6	5	5
Sunday	8/10/2017	7	6	6
Monday	9/10/2017	9	6	7
Tuesday	10/10/2017	7	5	6
Wednesday	11/10/2017	8	7	7
Thursday	12/10/2017	8	6	7
Friday	13/10/2017	8	6	7
Saturday	14/10/2017	8	4	6
Sunday	15/10/2017	8	5	6
Monday	16/10/2017	8	5	6
Tuesday	17/10/2017	7	5	6
Wednesday	18/10/2017	7	6	6
Thursday	19/10/2017	8	6	6
Friday	20/10/2017	26	2	5
Saturday	21/10/2017	4	2	3
Sunday	22/10/2017	4	2	3
Monday	23/10/2017	4	2	3
Tuesday	24/10/2017	5	3	4
Wednesday	25/10/2017	4	2	3
Thursday	26/10/2017	5	3	3
Friday	27/10/2017	4	2	3
Saturday	28/10/2017	5	3	3
Sunday	29/10/2017	5	3	4
Monday	30/10/2017	5	3	4
Tuesday	31/10/2017	3	2	2
Monthly Results		26	1	5

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7										
Current Month Data: Oct-17		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs	
Licensed Limits		pH max 8.5	pH min 6.5		TSS max: Dry weather 40mg/L Wet weather: 150mg/L			Total Volume discharged per day (kl)		
Day	Date	pH Max	pH Min	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	1000kl/day max	Rainfall per day - 24hrs (mm)	
Sunday	1/10/2017	8	8	8	16	14	15	68	0	
Monday	2/10/2017	8.3	7.3	8.1	32	14	16	58	0	
Tuesday	3/10/2017	8.3	7.4	8.1	33	31	32	53	0	
Wednesday	4/10/2017	8.3	8.2	8.2	34	9	22	19	0	
Thursday	5/10/2017	8.2	8.1	8.2	10	9	10	10	0	
Friday	6/10/2017	8.3	8.0	8.2	12	12	12	20	0	
Saturday	7/10/2017	8.3	7.9	8.2	14	12	13	79	0	
Sunday	8/10/2017							0	0	
Monday	9/10/2017	7.4	7.4	7.4	12	12	12	10	1	
Tuesday	10/10/2017	7.9	7.9	7.9	12	12	12	5	0	
Wednesday	11/10/2017	7.7	7.7	7.7	11	11	11	5	0	
Thursday	12/10/2017	8.2	7.9	8.1	12	8	10	23	0	
Friday	13/10/2017	8.3	7.5	7.9	10	7	9	30	5	
Saturday	14/10/2017	8.2	6.8	7.2	10	9	10	45	0	
Sunday	15/10/2017	8.3	6.8	7.2	9	8	8	32	0	
Monday	16/10/2017	7.7	6.8	7.1	11	10	10	41	0	
Tuesday	17/10/2017	7.8	7.6	7.7	12	10	11	37	0	
Wednesday	18/10/2017	8.0	7.8	7.9	15	13	14	37	0	
Thursday	19/10/2017	8.2	7.6	8.0	16	13	15	65	0	
Friday	20/10/2017	8.3	7.3	7.8	15	11	14	125	12	
Saturday	21/10/2017	8.2	7.4	7.9	13	10	12	65	0	
Sunday	22/10/2017	8.2	7.6	7.8	13	12	13	57	3	
Monday	23/10/2017	8.2	8.0	8.1	14	13	13	35	0	
Tuesday	24/10/2017	8.3	8.1	8.2	14	10	13	65	0	
Wednesday	25/10/2017	8.2	7.7	8.0	10	10	10	52	2	
Thursday	26/10/2017	8.1	7.2	8.0	12	9	10	65	5	
Friday	27/10/2017	7.6	7.2	7.4	21	13	19	41	1	
Saturday	28/10/2017	7.6	7.3	7.5	19	18	19	38	0	
Sunday	29/10/2017	8.1	7.8	8.0	19	18	19	49	0	
Monday	30/10/2017	8.1	7.2	7.6	22	18	20	43	0	
Tuesday	31/10/2017	7.7	7.0	7.4	22	11	16	38	1	
Monthly Results		8.3	6.8	7.8	34	7	14	1311	30	

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 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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack						
Current Month Data: Nov-17		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	Sampling Information
Wednesday	1/11/2017	521	125	366		
Thursday	2/11/2017	637	263	436		
Friday	3/11/2017	602	0	209		
Saturday	4/11/2017	0	0	0		
Sunday	5/11/2017	0	0	0		
Monday	6/11/2017	0	0	0		
Tuesday	7/11/2017	0	0	0		
Wednesday	8/11/2017	0	0	0		
Thursday	9/11/2017	0	0	0		
Friday	10/11/2017	0	0	0		
Saturday	11/11/2017	0	0	0		
Sunday	12/11/2017	0	0	0		
Monday	13/11/2017	0	0	0		
Tuesday	14/11/2017	0	0	0		
Wednesday	15/11/2017	0	0	0		
Thursday	16/11/2017	0	0	0		
Friday	17/11/2017	0	0	0		
Saturday	18/11/2017	0	0	0		
Sunday	19/11/2017	0	0	0		
Monday	20/11/2017	0	0	0		
Tuesday	21/11/2017	0	0	0		
Wednesday	22/11/2017	0	0	0		
Thursday	23/11/2017	0	0	0		
Friday	24/11/2017	0	0	0		
Saturday	25/11/2017	0	0	0		
Sunday	26/11/2017	0	0	0		
Monday	27/11/2017	0	0	0		
Tuesday	28/11/2017	0	0	0		
Wednesday	29/11/2017	0	0	0		
Thursday	30/11/2017	0	0	0		
Monthly Results		637	0	34		

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 560 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.

Licensed Discharge Point 2: SMBS Stack				
Current Month Data: Nov-17		SO2 Licensed Limit max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Wednesday	1/11/2017	2	1	2
Thursday	2/11/2017	4	1	2
Friday	3/11/2017	8	3	5
Saturday	4/11/2017	5	3	4
Sunday	5/11/2017	5	3	4
Monday	6/11/2017	7	4	5
Tuesday	7/11/2017	5	3	4
Wednesday	8/11/2017	5	3	4
Thursday	9/11/2017	5	3	4
Friday	10/11/2017	5	4	4
Saturday	11/11/2017	5	4	5
Sunday	12/11/2017	5	4	4
Monday	13/11/2017	6	4	4
Tuesday	14/11/2017	5	4	4
Wednesday	15/11/2017	6	4	5
Thursday	16/11/2017	6	4	5
Friday	17/11/2017	6	3	4
Saturday	18/11/2017	4	3	3
Sunday	19/11/2017	4	3	3
Monday	20/11/2017	4	3	3
Tuesday	21/11/2017	58	3	11
Wednesday	22/11/2017	4	3	3
Thursday	23/11/2017	7	3	4
Friday	24/11/2017	4	3	3
Saturday	25/11/2017	5	3	4
Sunday	26/11/2017	6	4	5
Monday	27/11/2017	6	3	4
Tuesday	28/11/2017	10	4	5
Wednesday	29/11/2017	5	4	5
Thursday	30/11/2017	5	3	4
Monthly Results		58	1	4

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to Tank 7										
Current Month Data: Nov-17		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs	
Day	Date	pH Max 8.5	pH min 6.5	pH Average	TSS Max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kL) Limit 1000kL/day max	Wet Weather >10mm/24hrs	
									Rainfall per day - 24hrs (mm)	
Wednesday	1/11/2017	8	7	7	12	10	11	46		0
Thursday	2/11/2017	8.2	7.8	8.0	11	9	10	52		0
Friday	3/11/2017	8.3	8.1	8.2	10	9	10	33		0
Saturday	4/11/2017	8.1	7.2	7.9	13	9	11	40		5
Sunday	5/11/2017	8.3	8.2	8.3	10	9	10	35		0
Monday	6/11/2017	8.3	8.1	8.2	14	11	13	74		20
Tuesday	7/11/2017	8.3	8.1	8.2	15	11	13	20		0
Wednesday	8/11/2017	8.1	7.2	7.7	13	13	13	35		5
Thursday	9/11/2017	8.2	7.7	7.9	14	12	13	10		0
Friday	10/11/2017	8.2	8.2	8.2	12	11	12	10		0
Saturday	11/11/2017	8.2	7.7	7.9	11	10	11	24		0
Sunday	12/11/2017	7.9	7.7	7.8	11	10	11	10		0
Monday	13/11/2017	8.3	7.6	7.9	11	11	11	8		0
Tuesday	14/11/2017									0
Wednesday	15/11/2017	7.9	7.9	7.9	11	11	11	4		0
Thursday	16/11/2017	7.9	7.9	7.9	11	10	11	9		1
Friday	17/11/2017	8.2	7.3	7.8	13	11	12	22		5
Saturday	18/11/2017	8.1	7.2	7.7	13	11	12	94		26
Sunday	19/11/2017	8.1	7.3	7.7	11	10	11	15		1
Monday	20/11/2017	7.6	7.6	7.6	9	9	9	8		0
Tuesday	21/11/2017	7.7	7.6	7.7	11	9	10	13		0
Wednesday	22/11/2017	8.0	7.8	7.9	10	9	10	19		0
Thursday	23/11/2017	8.3	7.8	8.1	10	7	9	20		0
Friday	24/11/2017	8.3	8.1	8.2	8	7	7	15		0
Saturday	25/11/2017	8.3	8.0	8.1	7	7	7	33		0
Sunday	26/11/2017	8.1	8.1	8.1	8	7	7	15		0
Monday	27/11/2017	8.3	8.1	8.2	8	7	8	29		0
Tuesday	28/11/2017	8.2	7.3	8.1	10	8	9	22		2
Wednesday	29/11/2017	8.2	8.2	8.2	9	8	9	18		0
Thursday	30/11/2017	8.3	8.2	8.2	10	9	9	15		0
Monthly Results		8.3	6.8	8.0	15	7	10	747		65

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack						
Current Month Data: Dec-17		SO ₂ Licensed Limit Max: 2800mg/m ³			SO ₃ Licensed Limit Max: 50mg/m ³	
Day	Date	SO ₂ Maximum (mg/m ³)	SO ₂ Minimum (mg/m ³)	SO ₂ Average (mg/m ³)	SO ₃ Result Required once per quarter (mg/m ³)	Sampling Information
Friday	1/12/2017	0	0	0		
Saturday	2/12/2017	0	0	0		
Sunday	3/12/2017	0	0	0		
Monday	4/12/2017	0	0	0		
Tuesday	5/12/2017	0	0	0		
Wednesday	6/12/2017	0	0	0		
Thursday	7/12/2017	0	0	0		
Friday	8/12/2017	0	0	0		
Saturday	9/12/2017	0	0	0		
Sunday	10/12/2017	0	0	0		
Monday	11/12/2017	0	0	0		
Tuesday	12/12/2017	0	0	0		
Wednesday	13/12/2017	0	0	0		
Thursday	14/12/2017	0	0	0		
Friday	15/12/2017	0	0	0		
Saturday	16/12/2017	0	0	0		
Sunday	17/12/2017	0	0	0		
Monday	18/12/2017	0	0	0		
Tuesday	19/12/2017	0	0	0		
Wednesday	20/12/2017	0	0	0		
Thursday	21/12/2017	0	0	0		
Friday	22/12/2017	0	0	0		
Saturday	23/12/2017	0	0	0		
Sunday	24/12/2017	0	0	0		
Monday	25/12/2017	0	0	0		
Tuesday	26/12/2017	0	0	0		
Wednesday	27/12/2017	0	0	0		
Thursday	28/12/2017	0	0	0		
Friday	29/12/2017	0	0	0		
Saturday	30/12/2017	0	0	0		
Sunday	31/12/2017	0	0	0		
Monthly Results		0	0	0		

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 560 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.

Licensed Discharge Point 2: SMBS Stack				
Current Month Data: Dec-17		SO ₂ Licensed Limit max: 560mg/m ³		
Day	Date	SO ₂ Maximum (mg/m ³)	SO ₂ Minimum (mg/m ³)	SO ₂ Average (mg/m ³)
Friday	1/12/2017	4	2	3
Saturday	2/12/2017	2	1	1
Sunday	3/12/2017	2	0	1
Monday	4/12/2017	2	0	1
Tuesday	5/12/2017	2	1	1
Wednesday	6/12/2017	2	1	1
Thursday	7/12/2017	2	1	2
Friday	8/12/2017	2	1	1
Saturday	9/12/2017	1	1	1
Sunday	10/12/2017	2	1	2
Monday	11/12/2017	32	2	7
Tuesday	12/12/2017	44	2	6
Wednesday	13/12/2017	4	2	3
Thursday	14/12/2017	4	2	3
Friday	15/12/2017	2	2	2
Saturday	16/12/2017	3	2	3
Sunday	17/12/2017	3	2	2
Monday	18/12/2017	3	2	2
Tuesday	19/12/2017	10	3	4
Wednesday	20/12/2017	4	2	3
Thursday	21/12/2017	3	2	2
Friday	22/12/2017	4	2	3
Saturday	23/12/2017	4	2	3
Sunday	24/12/2017	4	2	3
Monday	25/12/2017	2	1	1
Tuesday	26/12/2017	1	0	1
Wednesday	27/12/2017	18	1	3
Thursday	28/12/2017	3	2	3
Friday	29/12/2017	23	3	5
Saturday	30/12/2017	5	3	4
Sunday	31/12/2017	3	3	3
Monthly Results		44	0	3

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7										
Current Month Data: Dec-17		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs	
Licensed Limits		pH max 8.5	pH min 6.5		TSS max: Dry weather 40mg/L Wet weather: 150mg/L					
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) Limit 1000kL/day max	Rainfall per day - 24hrs (mm)	
Friday	1/12/2017	8	8	8	10	9	10	10	0	
Saturday	2/12/2017	8.3	7.3	7.9	13	9	10	41	13	
Sunday	3/12/2017	8.2	6.8	7.5	13	11	12	47	0	
Monday	4/12/2017	7.8	7.3	7.5	16	15	15	28	8	
Tuesday	5/12/2017	8.0	7.9	7.9	17	15	16	10	0	
Wednesday	6/12/2017	8.2	8.1	8.2	15	9	12	10	0	
Thursday	7/12/2017	8.2	8.2	8.2	10	10	10	5	0	
Friday	8/12/2017	8.0	8.0	8.0	10	10	10	5	4	
Saturday	9/12/2017	6.8	6.8	6.8	12	12	12	5	0	
Sunday	10/12/2017								0	
Monday	11/12/2017	8.0	7.5	7.8	9	8	8	42	0	
Tuesday	12/12/2017								0	
Wednesday	13/12/2017	8.1	7.4	7.7	10	8	9	23	0	
Thursday	14/12/2017	7.8	7.7	7.7	10	9	10	9	0	
Friday	15/12/2017	7.9	7.8	7.8	10	9	10	10	3	
Saturday	16/12/2017	7.8	7.2	7.5	18	14	16	55	0	
Sunday	17/12/2017	7.3	7.0	7.1	14	13	14	52	2	
Monday	18/12/2017	7.5	7.5	7.5	13	13	13	10	0	
Tuesday	19/12/2017	8.1	7.3	7.7	23	13	17	29	0	
Wednesday	20/12/2017	8.0	6.9	7.6	14	14	14	10	1	
Thursday	21/12/2017	8.2	7.1	7.8	16	11	13	24	0	
Friday	22/12/2017	8.1	7.4	7.7	11	10	10	41	15	
Saturday	23/12/2017	8.0	7.9	7.9	10	9	10	12	0	
Sunday	24/12/2017	7.9	7.8	7.9	9	9	9	19	1	
Monday	25/12/2017	7.6	6.8	7.2	10	9	10	23	0	
Tuesday	26/12/2017	7.7	7.6	7.6	11	10	10	15	0	
Wednesday	27/12/2017	7.8	7.7	7.8	11	8	10	15	0	
Thursday	28/12/2017	7.9	7.7	7.8	9	8	9	18	0	
Friday	29/12/2017	7.8	7.5	7.6	8	8	8	25	0	
Saturday	30/12/2017	8.2	7.4	7.9	10	9	10	17	2	
Sunday	31/12/2017	8.3	7.0	8.1	10	8	9	67	10	
Monthly Results		8.3	6.8	7.7	23	8	11	676	59	

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack						
Current Month Data:		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	Sampling Information
Monday	1/01/2018	0	0	0		
Tuesday	2/01/2018	0	0	0		
Wednesday	3/01/2018	0	0	0		
Thursday	4/01/2018	0	0	0		
Friday	5/01/2018	0	0	0		
Saturday	6/01/2018	0	0	0		
Sunday	7/01/2018	0	0	0		
Monday	8/01/2018	0	0	0		
Tuesday	9/01/2018	5	0	0		
Wednesday	10/01/2018	0	0	0		
Thursday	11/01/2018	0	0	0		
Friday	12/01/2018	0	0	0		
Saturday	13/01/2018	0	0	0		
Sunday	14/01/2018	0	0	0		
Monday	15/01/2018	0	0	0		
Tuesday	16/01/2018	0	0	0		
Wednesday	17/01/2018	0	0	0		
Thursday	18/01/2018	0	0	0		
Friday	19/01/2018	0	0	0		
Saturday	20/01/2018	0	0	0		
Sunday	21/01/2018	0	0	0		
Monday	22/01/2018	0	0	0		
Tuesday	23/01/2018	0	0	0		
Wednesday	24/01/2018	0	0	0		
Thursday	25/01/2018	0	0	0		
Friday	26/01/2018	0	0	0		
Saturday	27/01/2018	0	0	0		
Sunday	28/01/2018	0	0	0		
Monday	29/01/2018	0	0	0		
Tuesday	30/01/2018	0	0	0		
Wednesday	31/01/2018	0	0	0		
Monthly Results		5	0	0		

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 560 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.

Licensed Discharge Point 2: SMBS Stack				
Current Month Data:		SO2 Licensed Limit max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Monday	1/01/2018	4	2	3
Tuesday	2/01/2018	5	2	3
Wednesday	3/01/2018	4	2	3
Thursday	4/01/2018	6	2	4
Friday	5/01/2018	4	3	4
Saturday	6/01/2018	9	3	4
Sunday	7/01/2018	6	3	4
Monday	8/01/2018	7	2	4
Tuesday	9/01/2018	25	3	5
Wednesday	10/01/2018	4	2	3
Thursday	11/01/2018	6	2	3
Friday	12/01/2018	5	4	5
Saturday	13/01/2018	5	2	4
Sunday	14/01/2018	2	1	1
Monday	15/01/2018	2	0	1
Tuesday	16/01/2018	3	0	1
Wednesday	17/01/2018	4	1	2
Thursday	18/01/2018	3	1	2
Friday	19/01/2018	5	2	3
Saturday	20/01/2018	4	2	3
Sunday	21/01/2018	4	3	3
Monday	22/01/2018	3	2	3
Tuesday	23/01/2018	4	2	3
Wednesday	24/01/2018	83	2	9
Thursday	25/01/2018	4	2	3
Friday	26/01/2018	4	3	4
Saturday	27/01/2018	4	3	4
Sunday	28/01/2018	36	3	7
Monday	29/01/2018	3	2	2
Tuesday	30/01/2018	3	1	2
Wednesday	31/01/2018	1	0	0
Monthly Results		83	0	3

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7										
Current Month Data:		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs	
Jan-18		pH max 8.5	pH min 6.5		TSS max: Dry weather 40mg/L Wet weather: 150mg/L					
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) Limit 1000kl/day max	Rainfall per day - 24hrs (mm)	
Monday	1/01/2018	8	8	8	9	8	8	19	0	
Tuesday	2/01/2018	8.1	7.8	8.0	8	8	8	15	4	
Wednesday	3/01/2018	8.1	7.4	7.7	9	8	9	25	0	
Thursday	4/01/2018	7.4	7.2	7.3	11	9	10	14	0	
Friday	5/01/2018	7.9	7.2	7.7	10	8	9	17	0	
Saturday	6/01/2018	8.2	8.0	8.1	8	7	7	14	0	
Sunday	7/01/2018	8.2	8.0	8.1	8	7	8	20	0	
Monday	8/01/2018	8.3	7.1	7.8	9	7	8	43	8	
Tuesday	9/01/2018	8.3	7.5	8.0	15	9	12	47	9	
Wednesday	10/01/2018	8.3	7.9	8.2	14	13	14	18	0	
Thursday	11/01/2018	8.3	7.9	8.2	15	13	14	30	0	
Friday	12/01/2018	8.3	8.0	8.2	17	15	16	28	6	
Saturday	13/01/2018	8.3	8.1	8.2	15	14	15	24	1	
Sunday	14/01/2018	8.3	7.1	7.8	15	14	14	44	15	
Monday	15/01/2018	8.2	7.5	7.8	14	14	14	15	0	
Tuesday	16/01/2018	8.3	7.8	8.1	15	14	15	20	0	
Wednesday	17/01/2018	8.1	8.1	8.1	15	15	15	10	0	
Thursday	18/01/2018	8.3	7.8	8.1	16	15	16	19	0	
Friday	19/01/2018	8.2	7.5	7.8	20	16	17	19	0	
Saturday	20/01/2018	7.2	7.0	7.1	21	20	21	14	0	
Sunday	21/01/2018	8.3	6.7	7.2	32	22	24	14	0	
Monday	22/01/2018	7.1	7.1	7.1	32	31	32	14	0	
Tuesday	23/01/2018	6.9	6.8	6.9	31	31	31	10	1	
Wednesday	24/01/2018	8.1	7.0	7.6	32	8	20	18	0	
Thursday	25/01/2018	7.9	6.8	7.1	13	8	10	81	0	
Friday	26/01/2018	7.5	7.0	7.2	12	9	10	109	0	
Saturday	27/01/2018	7.6	7.5	7.5	9	9	9	36	0	
Sunday	28/01/2018	8.3	8.1	8.2	9	9	9	34	0	
Monday	29/01/2018	8.2	8.0	8.1	9	8	9	30	0	
Tuesday	30/01/2018	8.3	7.6	8.1	12	9	10	41	0	
Wednesday	31/01/2018	8.3	8.0	8.1	13	11	12	25	3	
Monthly Results		8.3	6.7	7.8	32	7	14	865	47	

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack						
Current Month Data:		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	Sampling Information
Thursday	1/02/2018	0	0	0		
Friday	2/02/2018	0	0	0		
Saturday	3/02/2018	20	0	1		
Sunday	4/02/2018	0	0	0		
Monday	5/02/2018	0	0	0		
Tuesday	6/02/2018	0	0	0		
Wednesday	7/02/2018	0	0	0		
Thursday	8/02/2018	0	0	0		
Friday	9/02/2018	0	0	0		
Saturday	10/02/2018	0	0	0		
Sunday	11/02/2018	0	0	0		
Monday	12/02/2018	0	0	0		
Tuesday	13/02/2018	0	0	0		
Wednesday	14/02/2018	0	0	0		
Thursday	15/02/2018	0	0	0		
Friday	16/02/2018	0	0	0		
Saturday	17/02/2018	0	0	0		
Sunday	18/02/2018	0	0	0		
Monday	19/02/2018	0	0	0		
Tuesday	20/02/2018	0	0	0		
Wednesday	21/02/2018	0	0	0		
Thursday	22/02/2018	0	0	0		
Friday	23/02/2018	0	0	0		
Saturday	24/02/2018	1167	0	49		
Sunday	25/02/2018	663	0	116		
Monday	26/02/2018	0	0	0		
Tuesday	27/02/2018	0	0	0		
Wednesday	28/02/2018	1406	0	634		
Monthly Results		1406	0	29		

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 560 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.

Licensed Discharge Point 2: SMBS Stack				
Current Month Data:		SO2 Licensed Limit max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Thursday	1/02/2018	1	0	0
Friday	2/02/2018	7	0	4
Saturday	3/02/2018	7	5	6
Sunday	4/02/2018	7	5	6
Monday	5/02/2018	7	5	7
Tuesday	6/02/2018	8	6	7
Wednesday	7/02/2018	8	6	7
Thursday	8/02/2018	7	6	7
Friday	9/02/2018	9	7	8
Saturday	10/02/2018	8	7	8
Sunday	11/02/2018	8	6	7
Monday	12/02/2018	8	6	7
Tuesday	13/02/2018	8	7	7
Wednesday	14/02/2018	9	5	7
Thursday	15/02/2018	169	5	19
Friday	16/02/2018	44	5	11
Saturday	17/02/2018	6	5	5
Sunday	18/02/2018	9	6	7
Monday	19/02/2018	7	5	6
Tuesday	20/02/2018	6	4	5
Wednesday	21/02/2018	6	4	5
Thursday	22/02/2018	6	4	5
Friday	23/02/2018	153	6	36
Saturday	24/02/2018	10	6	7
Sunday	25/02/2018	8	4	6
Monday	26/02/2018	5	4	4
Tuesday	27/02/2018	5	4	4
Wednesday	28/02/2018	7	4	6
Monthly Results		169	0	8

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Current Month Data:		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs
Feb-18		pH max 8.5			TSS max: Dry weather 40mg/L Wet weather: 150mg/L				
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) Limit 1000kl/day max	Rainfall per day - 24hrs (mm)
Thursday	1/02/2018	8	8	8	12	10	11	30	0
Friday	2/02/2018	8.3	8.2	8.3	11	10	11	24	0
Saturday	3/02/2018	8.3	7.7	8.1	14	9	11	54	7
Sunday	4/02/2018	8.3	7.0	8.0	11	9	10	25	0
Monday	5/02/2018	8.2	7.6	8.0	10	9	9	29	0
Tuesday	6/02/2018								0
Wednesday	7/02/2018	8.1	7.4	7.7	12	10	11	25	0
Thursday	8/02/2018	8.2	8.0	8.1	10	9	10	19	0
Friday	9/02/2018	8.2	7.9	8.1	9	9	9	15	0
Saturday	10/02/2018	8.1	6.9	7.6	10	9	10	21	0
Sunday	11/02/2018	8.2	7.8	8.0	9	9	9	25	5
Monday	12/02/2018	8.0	8.0	8.0	9	9	9	4	0
Tuesday	13/02/2018	8.3	8.2	8.2	9	8	9	30	0
Wednesday	14/02/2018	8.2	8.0	8.1	9	8	9	18	0
Thursday	15/02/2018	7.8	7.1	7.5	10	9	9	13	1
Friday	16/02/2018	7.9	7.1	7.6	13	11	12	15	0
Saturday	17/02/2018	7.7	7.1	7.5	13	11	12	19	0
Sunday	18/02/2018	8.3	8.1	8.2	12	11	11	19	0
Monday	19/02/2018	8.1	7.4	7.7	12	11	12	14	0
Tuesday	20/02/2018	8.3	7.8	8.1	15	12	14	37	11
Wednesday	21/02/2018	8.3	8.1	8.2	16	12	14	30	1
Thursday	22/02/2018	8.3	7.8	8.0	17	15	16	15	0
Friday	23/02/2018	7.6	7.6	7.6	26	26	26	4	0
Saturday	24/02/2018	7.9	6.9	7.4	35	19	25	37	0
Sunday	25/02/2018	8.3	6.8	7.6	23	15	18	150	17
Monday	26/02/2018	8.3	7.0	7.8	16	14	15	44	42
Tuesday	27/02/2018	8.3	8.2	8.3	14	13	14	20	4
Wednesday	28/02/2018	8.3	8.1	8.2	14	7	11	39	0
Monthly Results		8.3	6.8	7.9	35	7	12	774	88

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack

Current Month Data:		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	
Month	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	Sampling Information
Thursday	1/03/2018	1649	694	1253		
Friday	2/03/2018	636	0	35		
Saturday	3/03/2018	1444	394	963		
Sunday	4/03/2018	1698	507	1028		
Monday	5/03/2018	1888	0	1453		
Tuesday	6/03/2018	1660	0	944		
Wednesday	7/03/2018	1384	0	469		
Thursday	8/03/2018	297	0	13		
Friday	9/03/2018	1368	0	61		
Saturday	10/03/2018	1827	148	1170		
Sunday	11/03/2018	1616	1005	1282		
Monday	12/03/2018	1611	694	1197		
Tuesday	13/03/2018	1338	0	287		
Wednesday	14/03/2018	1576	0	631		
Thursday	15/03/2018	1911	0	921		
Friday	16/03/2018	224	0	27		
Saturday	17/03/2018	1884	213	974		
Sunday	18/03/2018	1500	0	601		
Monday	19/03/2018	1631	0	492		
Tuesday	20/03/2018	1698	0	429		
Wednesday	21/03/2018	1654	482	1187		
Thursday	22/03/2018	1642	1196	1453		
Friday	23/03/2018	1701	0	231		
Saturday	24/03/2018	1810	0	921		
Sunday	25/03/2018	1892	1022	1404		
Monday	26/03/2018	1338	952	1122		
Tuesday	27/03/2018	1370	1149	1237		
Wednesday	28/03/2018	1476	1023	1199		
Thursday	29/03/2018	2067	0	512		
Friday	30/03/2018	1387	392	1079		
Saturday	31/03/2018	1896	754	1022		
Monthly Results		2067	0	826		

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 560 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.

Licensed Discharge Point 2: SMBS Stack

Current Month Data:		SO2 Licensed Limit max: 560mg/m3		
Month	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Thursday	1/03/2018	6	5	6
Friday	2/03/2018	11	5	6
Saturday	3/03/2018	8	6	6
Sunday	4/03/2018	7	5	6
Monday	5/03/2018	6	5	6
Tuesday	6/03/2018	7	4	5
Wednesday	7/03/2018	8	5	6
Thursday	8/03/2018	7	5	5
Friday	9/03/2018	6	4	5
Saturday	10/03/2018	9	4	5
Sunday	11/03/2018	6	5	6
Monday	12/03/2018	7	5	6
Tuesday	13/03/2018	6	4	5
Wednesday	14/03/2018	8	5	6
Thursday	15/03/2018	8	6	7
Friday	16/03/2018	9	6	7
Saturday	17/03/2018	10	7	8
Sunday	18/03/2018	11	7	8
Monday	19/03/2018	13	7	8
Tuesday	20/03/2018	9	5	7
Wednesday	21/03/2018	14	6	7
Thursday	22/03/2018	9	6	7
Friday	23/03/2018	8	6	7
Saturday	24/03/2018	9	6	8
Sunday	25/03/2018	9	7	8
Monday	26/03/2018	7	5	7
Tuesday	27/03/2018	9	6	7
Wednesday	28/03/2018	7	6	6
Thursday	29/03/2018	10	6	7
Friday	30/03/2018	8	6	7
Saturday	31/03/2018	10	5	6
Monthly Results		14	4	7

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Current Month Data:		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs
Month	Date	pH max 8.5	pH min 6.5	pH Average	TSS max (mg/L)	TSS min (mg/L)	TSS Average (mg/L)	Total Volume discharged per day (kl) Limit 1000kl/day max	Rainfall per day - 24hrs (mm)
Thursday	1/03/2018	8	7	8	11	10	11	63	0
Friday	2/03/2018	8.3	7.7	8.1	12	10	11	49	0
Saturday	3/03/2018	8.2	8.1	8.2	11	9	10	49	0
Sunday	4/03/2018	8.1	7.1	7.5	11	10	11	43	0
Monday	5/03/2018	7.4	7.0	7.3	11	10	10	43	0
Tuesday	6/03/2018	8.2	7.3	7.9	12	10	11	51	1
Wednesday	7/03/2018	8.1	7.2	7.7	14	13	14	34	1
Thursday	8/03/2018	8.2	8.0	8.0	14	12	13	24	0
Friday	9/03/2018	8.3	7.8	8.1	12	9	10	30	0
Saturday	10/03/2018	8.3	7.8	8.0	10	8	9	40	0
Sunday	11/03/2018	8.0	7.4	7.6	11	9	10	58	0
Monday	12/03/2018	8.3	7.5	8.0	13	11	12	59	0
Tuesday	13/03/2018	8.3	7.5	8.1	16	12	14	92	2
Wednesday	14/03/2018	8.3	8.1	8.2	11	9	10	37	3
Thursday	15/03/2018	8.1	6.8	7.5	13	9	11	34	0
Friday	16/03/2018	8.3	7.0	8.0	14	13	14	37	0
Saturday	17/03/2018	8.3	6.9	7.7	12	10	11	44	0
Sunday	18/03/2018	7.6	6.8	7.1	13	11	12	38	0
Monday	19/03/2018	8.1	7.1	7.7	16	13	14	78	0
Tuesday	20/03/2018	8.1	7.1	7.9	13	9	10	92	0
Wednesday	21/03/2018	8.2	6.8	7.7	16	9	12	68	5
Thursday	22/03/2018	8.4	6.7	7.2	18	12	15	63	9
Friday	23/03/2018	7.9	7.0	7.3	16	13	15	50	1
Saturday	24/03/2018	8.3	7.8	8.1	12	10	11	61	1
Sunday	25/03/2018	8.1	6.9	7.6	16	12	14	55	0
Monday	26/03/2018	8.3	6.9	7.3	16	11	14	51	2
Tuesday	27/03/2018	8.3	7.3	7.8	12	10	11	62	0
Wednesday	28/03/2018	8.3	8.0	8.2	14	10	11	64	0
Thursday	29/03/2018	8.3	8.1	8.2	11	10	10	44	0
Friday	30/03/2018	8.2	7.5	8.1	10	9	9	52	0
Saturday	31/03/2018	8.0	6.9	7.2	19	8	10	58	0
Monthly Results		8.4	6.7	7.8	19	8	12	1623	25

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack						
Current Month Data:		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	Sampling Information
Sunday	1/04/2018	1892	651	1310	27	Stack Test 3 April 2018, Results Received 16 April, Results Published 20 April
Monday	2/04/2018	1728	936	1190		
Tuesday	3/04/2018	1064	936	1007		
Wednesday	4/04/2018	1222	869	1075		
Thursday	5/04/2018	1393	871	1144		
Friday	6/04/2018	1501	973	1112		
Saturday	7/04/2018	1250	742	963		
Sunday	8/04/2018	1346	927	1099		
Monday	9/04/2018	1242	0	716		
Tuesday	10/04/2018	1326	0	228		
Wednesday	11/04/2018	0	0	0		
Thursday	12/04/2018	462	0	69		
Friday	13/04/2018	1609	0	741		
Saturday	14/04/2018	1533	598	963		
Sunday	15/04/2018	1358	526	855		
Monday	16/04/2018	1578	1104	1325		
Tuesday	17/04/2018	1601	1099	1271		
Wednesday	18/04/2018	1541	1115	1390		
Thursday	19/04/2018	1704	770	1387		
Friday	20/04/2018	1872	1588	1714		
Saturday	21/04/2018	1752	1385	1572		
Sunday	22/04/2018	1647	1144	1443		
Monday	23/04/2018	1329	739	1115		
Tuesday	24/04/2018	1522	550	957		
Wednesday	25/04/2018	1467	0	1010		
Thursday	26/04/2018	1355	1119	1249		
Friday	27/04/2018	1322	614	1110		
Saturday	28/04/2018	1497	1232	1344		
Sunday	29/04/2018	1462	616	1034		
Monday	30/04/2018	1036	0	612		
Monthly Results		1892	0	1034	27	

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 560 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.

Licensed Discharge Point 2: SMBS Stack				
Current Month Data:		SO2 Licensed Limit max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Sunday	1/04/2018	9	6	7
Monday	2/04/2018	8	5	6
Tuesday	3/04/2018	7	4	6
Wednesday	4/04/2018	11	4	6
Thursday	5/04/2018	12	6	8
Friday	6/04/2018	8	5	6
Saturday	7/04/2018	8	6	7
Sunday	8/04/2018	15	5	6
Monday	9/04/2018	8	5	6
Tuesday	10/04/2018	8	5	6
Wednesday	11/04/2018	9	4	6
Thursday	12/04/2018	101	5	16
Friday	13/04/2018	9	5	6
Saturday	14/04/2018	6	3	5
Sunday	15/04/2018	13	2	4
Monday	16/04/2018	7	4	5
Tuesday	17/04/2018	20	3	6
Wednesday	18/04/2018	17	3	5
Thursday	19/04/2018	5	4	5
Friday	20/04/2018	9	4	7
Saturday	21/04/2018	8	6	7
Sunday	22/04/2018	8	6	7
Monday	23/04/2018	8	6	7
Tuesday	24/04/2018	15	5	8
Wednesday	25/04/2018	9	8	8
Thursday	26/04/2018	8	6	7
Friday	27/04/2018	8	6	7
Saturday	28/04/2018	7	6	6
Sunday	29/04/2018	9	6	6
Monday	30/04/2018	8	6	7
Monthly Results		101	2	7

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Current Month Data:		pH			Total Suspended Solids (TSS)			Wet Weather >10mm/24hrs	
Data:		pH max 8.5			pH min 6.5			TSS max: Dry weather 40mg/L	
Data:		pH max 8.5			pH min 6.5			Wet weather: 150mg/L	
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) Limit 1000kl/day max	Rainfall per day - 24hrs (mm)
Sunday	1/04/2018	7	7	7	22	14	18	74	0
Monday	2/04/2018	8.1	6.8	7.5	21	15	18	47	0
Tuesday	3/04/2018	7.7	6.9	7.3	20	18	19	47	2
Wednesday	4/04/2018	7.9	7.0	7.4	20	9	12	67	0
Thursday	5/04/2018	8.3	6.8	7.2	10	9	10	101	0
Friday	6/04/2018	8.0	6.6	7.1	10	8	9	54	0
Saturday	7/04/2018	8.1	6.6	7.3	10	8	9	72	0
Sunday	8/04/2018	7.8	6.9	7.0	11	10	10	62	0
Monday	9/04/2018	8.0	6.9	7.4	14	10	11	80	0
Tuesday	10/04/2018	8.3	7.4	8.0	13	9	10	37	0
Wednesday	11/04/2018	8.2	7.8	8.0	10	9	10	24	0
Thursday	12/04/2018	7.9	7.7	7.8	10	9	10	19	0
Friday	13/04/2018	8.2	7.1	8.0	9	8	9	34	0
Saturday	14/04/2018	8.3	7.3	7.9	10	9	9	53	2
Sunday	15/04/2018	8.2	7.8	8.0	12	10	11	41	0
Monday	16/04/2018	8.3	7.9	8.1	11	11	11	86	0
Tuesday	17/04/2018	8.2	7.2	7.7	12	10	11	51	0
Wednesday	18/04/2018	7.7	6.9	7.3	11	10	10	41	0
Thursday	19/04/2018	8.2	6.7	7.5	12	10	11	57	0
Friday	20/04/2018	8.2	6.9	7.8	20	10	14	63	0
Saturday	21/04/2018	8.2	6.8	7.6	13	10	11	62	0
Sunday	22/04/2018	8.2	6.8	7.4	12	10	11	56	0
Monday	23/04/2018	7.8	6.8	7.4	13	10	11	63	0
Tuesday	24/04/2018	8.3	6.9	7.5	14	11	12	56	0
Wednesday	25/04/2018	8.3	8.2	8.3	13	10	12	49	0
Thursday	26/04/2018	8.2	7.5	7.8	34	11	21	61	0
Friday	27/04/2018	7.6	7.0	7.3	31	25	29	64	0
Saturday	28/04/2018	8.0	6.8	7.3	29	26	28	56	0
Sunday	29/04/2018	8.3	6.9	7.4	27	25	26	89	0
Monday	30/04/2018	8.3	7.7	8.2	39	10	25	62	15
Monthly Results		8.3	6.6	7.6	39	8	14	1727	19

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack

Current Month Data:		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	Sampling Information
Tuesday	1/05/2018	1	0	1		
Wednesday	2/05/2018	2	1	2		
Thursday	3/05/2018	3	2	3		
Friday	4/05/2018	1712	0	404		
Saturday	5/05/2018	1134	355	860		
Sunday	6/05/2018	1116	625	900		
Monday	7/05/2018	2237	659	1260		
Tuesday	8/05/2018	1627	844	1270		
Wednesday	9/05/2018	1622	1032	1298		
Thursday	10/05/2018	1438	715	1108		
Friday	11/05/2018	1592	765	1173		
Saturday	12/05/2018	1742	1036	1293		
Sunday	13/05/2018	1502	475	1031		
Monday	14/05/2018	1338	1120	1222		
Tuesday	15/05/2018	1288	1070	1187		
Wednesday	16/05/2018	1209	966	1069		
Thursday	17/05/2018	1551	960	1117		
Friday	18/05/2018	1613	1210	1388	10	
Saturday	19/05/2018	1544	1246	1393		
Sunday	20/05/2018	1606	781	1294		
Monday	21/05/2018	1348	976	1151		
Tuesday	22/05/2018	1424	724	995		
Wednesday	23/05/2018	1627	939	1209		
Thursday	24/05/2018	958	803	893		
Friday	25/05/2018	1050	768	890		
Saturday	26/05/2018	1698	700	1073		
Sunday	27/05/2018	1422	779	1196		
Monday	28/05/2018	1418	982	1232		
Tuesday	29/05/2018	1796	466	1006		
Wednesday	30/05/2018	1186	0	375		
Thursday	31/05/2018	1	0	1		
Monthly Results		2237	0	945	10	

Stack Test 18 May 2018, Results Received 12 June 2018, Results Published 26 June 2018

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 560 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.

Licensed Discharge Point 2: SMBS Stack

Current Month Data:		SO2 Licensed Limit max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Tuesday	1/05/2018	7	5	6
Wednesday	2/05/2018	8	6	7
Thursday	3/05/2018	9	6	7
Friday	4/05/2018	9	5	7
Saturday	5/05/2018	7	5	6
Sunday	6/05/2018	7	5	6
Monday	7/05/2018	9	6	7
Tuesday	8/05/2018	8	6	7
Wednesday	9/05/2018	9	7	8
Thursday	10/05/2018	8	4	6
Friday	11/05/2018	11	7	9
Saturday	12/05/2018	13	9	10
Sunday	13/05/2018	12	9	10
Monday	14/05/2018	11	9	9
Tuesday	15/05/2018	12	9	10
Wednesday	16/05/2018	11	9	10
Thursday	17/05/2018	13	9	10
Friday	18/05/2018	12	9	11
Saturday	19/05/2018	11	9	10
Sunday	20/05/2018	11	9	10
Monday	21/05/2018	11	8	9
Tuesday	22/05/2018	15	8	11
Wednesday	23/05/2018	12	9	11
Thursday	24/05/2018	14	10	12
Friday	25/05/2018	13	5	8
Saturday	26/05/2018	8	4	5
Sunday	27/05/2018	8	5	6
Monday	28/05/2018	8	6	7
Tuesday	29/05/2018	8	5	6
Wednesday	30/05/2018	7	3	5
Thursday	31/05/2018	6	4	5
Monthly Results		15	3	8

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Current Month Data:		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs
May-18		pH max 8.5	pH min 6.5		TSS max: Dry weather 40mg/L Wet weather: 150mg/L				
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	1/05/2018	8	8	8	10	9	10	33	0
Wednesday	2/05/2018	8.2	7.6	7.9	12	9	11	34	0
Thursday	3/05/2018	8.3	7.7	8.0	12	10	11	34	0
Friday	4/05/2018	8.2	7.8	8.0	15	11	12	25	0
Saturday	5/05/2018	7.9	7.3	7.6	27	15	19	46	0
Sunday	6/05/2018	8.4	6.9	7.5	30	23	27	52	0
Monday	7/05/2018	8.2	7.7	8.0	34	26	30	56	0
Tuesday	8/05/2018	8.3	6.8	7.4	35	32	34	62	0
Wednesday	9/05/2018	8.4	6.8	7.5	31	13	22	72	0
Thursday	10/05/2018	8.3	6.9	7.5	12	9	10	64	0
Friday	11/05/2018	8.3	6.8	7.5	10	9	9	68	0
Saturday	12/05/2018	7.7	6.9	7.4	18	9	13	77	0
Sunday	13/05/2018	8.0	6.8	7.2	19	15	17	69	6
Monday	14/05/2018	8.3	7.8	8.1	16	15	15	68	1
Tuesday	15/05/2018	7.9	6.8	7.2	15	14	15	60	1
Wednesday	16/05/2018	7.8	6.8	7.1	16	8	12	59	0
Thursday	17/05/2018	8.3	6.7	7.4	9	8	8	51	0
Friday	18/05/2018	8.3	6.8	7.1	9	8	9	64	0
Saturday	19/05/2018	7.1	6.8	6.9	9	8	9	57	0
Sunday	20/05/2018	7.1	6.8	6.9	9	8	9	39	0
Monday	21/05/2018	7.9	6.8	7.1	9	9	9	73	0
Tuesday	22/05/2018	8.1	6.8	7.4	17	8	11	63	0
Wednesday	23/05/2018	8.2	7.2	7.6	19	16	17	55	0
Thursday	24/05/2018	7.7	6.9	7.4	18	17	18	57	0
Friday	25/05/2018	7.5	6.8	6.9	20	19	19	52	0
Saturday	26/05/2018	8.1	6.9	7.1	20	19	20	58	0
Sunday	27/05/2018	7.2	6.9	7.0	21	20	20	55	0
Monday	28/05/2018	7.2	6.8	6.9	23	21	22	56	0
Tuesday	29/05/2018	8.3	6.7	7.3	23	21	22	56	0
Wednesday	30/05/2018	8.2	7.1	7.8	24	8	16	46	1
Thursday	31/05/2018	8.1	7.7	7.9	12	11	11	19	1
Monthly Results		8.4	6.7	7.4	35	8	16	1681	10

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack

Current Month Data:		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	Sampling Information
Friday	1/06/2018	29	0	2		
Saturday	2/06/2018	1451	0	410		
Sunday	3/06/2018	1211	0	543		
Monday	4/06/2018	1384	1095	1231		
Tuesday	5/06/2018	1751	1298	1486		
Wednesday	6/06/2018	1790	1449	1449		
Thursday	7/06/2018	1801	658	1189		
Friday	8/06/2018	1629	1263	1429		
Saturday	9/06/2018	1420	666	1068		
Sunday	10/06/2018	1501	1111	1258		
Monday	11/06/2018	1345	1146	1229		
Tuesday	12/06/2018	1482	1017	1198		
Wednesday	13/06/2018	1579	1147	1391		
Thursday	14/06/2018	1457	1099	1310		
Friday	15/06/2018	1157	848	1025		
Saturday	16/06/2018	1462	491	881		
Sunday	17/06/2018	1430	1074	1264		
Monday	18/06/2018	1391	1001	1253		
Tuesday	19/06/2018	1336	854	1059		
Wednesday	20/06/2018	1414	1144	1329		
Thursday	21/06/2018	1532	1135	1296		
Friday	22/06/2018	1575	1121	1335		
Saturday	23/06/2018	1529	1045	1278		
Sunday	24/06/2018	1502	1187	1287		
Monday	25/06/2018	1412	731	1038		
Tuesday	26/06/2018	1087	873	944		
Wednesday	27/06/2018	1146	903	1014		
Thursday	28/06/2018	1446	883	1145		
Friday	29/06/2018	1178	889	1042		
Saturday	30/06/2018	1108	807	978		
Monthly Results		1801	0	1112		

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 560 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.

Licensed Discharge Point 2: SMBS Stack

Current Month Data:		SO2 Licensed Limit max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Friday	1/06/2018	17	3	5
Saturday	2/06/2018	8	4	7
Sunday	3/06/2018	12	4	5
Monday	4/06/2018	16	7	11
Tuesday	5/06/2018	16	5	8
Wednesday	6/06/2018	16	7	10
Thursday	7/06/2018	13	4	8
Friday	8/06/2018	14	7	10
Saturday	9/06/2018	12	6	9
Sunday	10/06/2018	8	5	6
Monday	11/06/2018	9	5	7
Tuesday	12/06/2018	10	5	7
Wednesday	13/06/2018	11	7	8
Thursday	14/06/2018	10	4	6
Friday	15/06/2018	13	7	9
Saturday	16/06/2018	6	4	5
Sunday	17/06/2018	4	4	4
Monday	18/06/2018	7	4	4
Tuesday	19/06/2018	8	4	5
Wednesday	20/06/2018	8	6	7
Thursday	21/06/2018	10	5	6
Friday	22/06/2018	11	6	8
Saturday	23/06/2018	7	4	5
Sunday	24/06/2018	7	5	6
Monday	25/06/2018	6	4	4
Tuesday	26/06/2018	14	4	7
Wednesday	27/06/2018	12	7	8
Thursday	28/06/2018	12	6	8
Friday	29/06/2018	13	8	11
Saturday	30/06/2018	12	7	9
Monthly Results		17	3	7

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Current Month Data:		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs
Licensed Limits		pH max 8.5	pH min 6.5		TSS max: Dry weather 40mg/L Wet weather: 150mg/L				
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	1/06/2018	8	8	8	12	11	11	29	0
Saturday	2/06/2018	8.2	7.7	8.1	14	11	12	35	0
Sunday	3/06/2018	8.3	7.0	7.5	16	14	15	32	0
Monday	4/06/2018	8.1	6.6	7.3	19	15	17	58	0
Tuesday	5/06/2018	8.3	6.7	7.2	20	16	17	68	0
Wednesday	6/06/2018	7.7	6.9	7.2	16	13	15	149	16
Thursday	7/06/2018	7.8	6.8	7.2	17	12	14	64	30
Friday	8/06/2018	7.9	6.8	7.3	21	20	21	45	0
Saturday	9/06/2018	7.3	6.8	7.0	25	22	23	58	0
Sunday	10/06/2018	7.3	6.9	7.0	34	25	31	44	3
Monday	11/06/2018	7.8	6.8	7.0	30	18	24	54	1
Tuesday	12/06/2018	7.9	6.8	7.3	18	17	17	57	0
Wednesday	13/06/2018	7.2	6.8	6.9	18	7	12	62	0
Thursday	14/06/2018	7.1	6.8	6.9	9	8	8	55	0
Friday	15/06/2018	7.1	6.8	6.9	8	8	8	59	0
Saturday	16/06/2018	8.0	6.8	7.1	8	8	8	57	0
Sunday	17/06/2018	8.3	8.0	8.1	8	8	8	62	0
Monday	18/06/2018	8.3	6.9	7.6	19	8	15	70	0
Tuesday	19/06/2018	8.3	6.8	7.5	17	13	14	108	12
Wednesday	20/06/2018	8.2	7.2	8.0	17	12	14	57	23
Thursday	21/06/2018	7.5	6.8	7.1	18	14	16	55	0
Friday	22/06/2018	7.1	6.8	6.9	19	17	17	60	0
Saturday	23/06/2018	7.1	6.8	6.9	24	19	20	54	0
Sunday	24/06/2018	7.1	6.8	6.9	28	22	24	60	0
Monday	25/06/2018	7.3	6.8	7.0	24	22	23	55	0
Tuesday	26/06/2018	8.0	6.8	7.1	24	21	22	64	0
Wednesday	27/06/2018	8.3	6.8	7.4	22	15	18	105	0
Thursday	28/06/2018	8.1	6.8	7.1	14	12	13	184	19
Friday	29/06/2018	7.5	6.8	7.0	14	13	14	55	41
Saturday	30/06/2018	7.9	7.6	7.7	14	14	14	62	0
Monthly Results		8.3	6.6	7.3	34	7	16	1978	145

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack

Current Month Data:		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	Sampling Information
Sunday	1/07/2018	1184	951	1066		
Monday	2/07/2018	1168	675	919		
Tuesday	3/07/2018	1460	663	966		
Wednesday	4/07/2018	1532	692	1027		
Thursday	5/07/2018	1481	1119	1304		
Friday	6/07/2018	1500	1004	1004		
Saturday	7/07/2018	1376	920	1182		
Sunday	8/07/2018	1431	954	1189		
Monday	9/07/2018	1397	790	1120		
Tuesday	10/07/2018	1450	1033	1198		
Wednesday	11/07/2018	1482	871	1169		
Thursday	12/07/2018	1510	600	1147		
Friday	13/07/2018	1599	398	1010		
Saturday	14/07/2018	1155	748	939		
Sunday	15/07/2018	1487	1056	1224		
Monday	16/07/2018	1094	0	236		
Tuesday	17/07/2018	0	0	0		
Wednesday	18/07/2018	0	0	0		
Thursday	19/07/2018	0	0	0		
Friday	20/07/2018	0	0	0		
Saturday	21/07/2018	0	0	0		
Sunday	22/07/2018	0	0	0		
Monday	23/07/2018	0	0	0		
Tuesday	24/07/2018	0	0	0		
Wednesday	25/07/2018	0	0	0		
Thursday	26/07/2018	0	0	0		
Friday	27/07/2018	0	0	0		
Saturday	28/07/2018	0	0	0		
Sunday	29/07/2018	0	0	0		
Monday	30/07/2018	0	0	0		
Tuesday	31/07/2018	0	0	0		
Monthly Results		1599	0	563		

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 560 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.

Licensed Discharge Point 2: SMBS Stack

Current Month Data:		SO2 Licensed Limit max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Sunday	1/07/2018	11	8	9
Monday	2/07/2018	7	6	6
Tuesday	3/07/2018	8	5	6
Wednesday	4/07/2018	9	8	8
Thursday	5/07/2018	12	9	10
Friday	6/07/2018	11	6	9
Saturday	7/07/2018	8	6	7
Sunday	8/07/2018	6	5	6
Monday	9/07/2018	6	5	5
Tuesday	10/07/2018	6	5	5
Wednesday	11/07/2018	9	5	6
Thursday	12/07/2018	9	6	8
Friday	13/07/2018	11	5	6
Saturday	14/07/2018	16	9	13
Sunday	15/07/2018	11	7	9
Monday	16/07/2018	11	7	9
Tuesday	17/07/2018	9	6	7
Wednesday	18/07/2018	13	7	8
Thursday	19/07/2018	10	8	9
Friday	20/07/2018	9	5	7
Saturday	21/07/2018	10	6	7
Sunday	22/07/2018	77	5	21
Monday	23/07/2018	13	5	6
Tuesday	24/07/2018	9	5	6
Wednesday	25/07/2018	18	5	7
Thursday	26/07/2018	8	6	7
Friday	27/07/2018	18	5	7
Saturday	28/07/2018	13	7	9
Sunday	29/07/2018	18	6	8
Monday	30/07/2018	59	5	14
Tuesday	31/07/2018			
Monthly Results		77	5	8

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7

Current Month Data:		pH			Total Suspended Solids (TSS)			Wet Weather >10mm/24hrs	
Licensed Limits		pH max 8.5	pH min 6.5		TSS max: Dry weather 40mg/L Wet weather: 150mg/L				
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	1/07/2018	8	8	8	15	14	14	59	0
Monday	2/07/2018	8.2	7.8	8.1	16	15	16	55	0
Tuesday	3/07/2018	8.3	6.9	8.1	18	15	16	62	1
Wednesday	4/07/2018	8.3	8.2	8.3	17	16	17	68	0
Thursday	5/07/2018	8.3	7.5	7.9	18	16	17	57	0
Friday	6/07/2018								0
Saturday	7/07/2018	7.3	6.8	7.0	18	17	18	69	0
Sunday	8/07/2018	7.2	6.8	7.0	19	18	19	55	0
Monday	9/07/2018	8.3	6.8	7.1	21	19	20	70	0
Tuesday	10/07/2018	7.5	6.8	7.1	20	19	20	62	0
Wednesday	11/07/2018	8.2	6.8	7.2	20	7	11	64	0
Thursday	12/07/2018	8.2	6.8	7.2	8	8	8	61	0
Friday	13/07/2018	8.2	6.8	7.3	8	8	8	69	2
Saturday	14/07/2018	8.3	7.8	8.2	8	7	8	64	0
Sunday	15/07/2018	8.3	7.3	7.6	8	8	8	89	0
Monday	16/07/2018	7.5	7.3	7.4	8	8	8	41	0
Tuesday	17/07/2018	7.9	7.6	7.7	9	8	9	10	0
Wednesday	18/07/2018	7.6	7.1	7.4	10	10	10	14	0
Thursday	19/07/2018	7.7	6.9	7.3	11	11	11	12	0
Friday	20/07/2018	7.7	7.4	7.6	11	10	11	10	0
Saturday	21/07/2018	7.5	7.5	7.5	11	11	11	11	0
Sunday	22/07/2018	7.8	7.5	7.6	10	10	10	20	0
Monday	23/07/2018	8.2	8.0	8.1	10	10	10	19	0
Tuesday	24/07/2018	8.3	8.1	8.2	10	10	10	20	0
Wednesday	25/07/2018	8.3	8.3	8.3	10	9	9	28	0
Thursday	26/07/2018	8.3	8.2	8.3	10	9	9	19	0
Friday	27/07/2018	8.3	8.2	8.2	10	10	10	35	0
Saturday	28/07/2018	8.3	7.8	8.0	10	10	10	29	0
Sunday	29/07/2018	8.2	7.8	8.0	10	10	10	25	0
Monday	30/07/2018	8.3	8.0	8.1	10	10	10	34	0
Tuesday	31/07/2018	8.2	7.8	8.1	10	10	10	35	0
Monthly Results		8.3	6.8	7.7	21	7	12	1267	3

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack						
Current Month Data:		SO ₂ Licensed Limit Max: 2800mg/m ³			SO ₃ Licensed Limit Max: 50mg/m ³	
Day	Date	SO ₂ Maximum (mg/m ³)	SO ₂ Minimum (mg/m ³)	SO ₂ Average (mg/m ³)	SO ₃ Result Required once per quarter (mg/m ³)	Sampling Information
Wednesday	1/08/2018	0	0	0		
Thursday	2/08/2018	0	0	0		
Friday	3/08/2018	0	0	0		
Saturday	4/08/2018	0	0	0		
Sunday	5/08/2018	0	0	0		
Monday	6/08/2018	0	0	0		
Tuesday	7/08/2018	0	0	0		
Wednesday	8/08/2018	0	0	0		
Thursday	9/08/2018	0	0	0		
Friday	10/08/2018	0	0	0		
Saturday	11/08/2018	0	0	0		
Sunday	12/08/2018	0	0	0		
Monday	13/08/2018	0	0	0		
Tuesday	14/08/2018	4	0	1		
Wednesday	15/08/2018	14	1	4		
Thursday	16/08/2018	3	0	1		
Friday	17/08/2018	3	1	2		
Saturday	18/08/2018	7	0	1		
Sunday	19/08/2018	2	0	0		
Monday	20/08/2018	2	0	1		
Tuesday	21/08/2018	2	0	1		
Wednesday	22/08/2018	0	0	0		
Thursday	23/08/2018	0	0	0		
Friday	24/08/2018	0	0	0		
Saturday	25/08/2018	1	0	0		
Sunday	26/08/2018	0	0	0		
Monday	27/08/2018	0	0	0		
Tuesday	28/08/2018	1371	0	760		
Wednesday	29/08/2018	1666	897	1307		
Thursday	30/08/2018	1515	1174	1327		
Friday	31/08/2018	1807	1170	1387		
Monthly Results		1807	0	155		

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 560 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.

Licensed Discharge Point 2: SMBS Stack				
Current Month Data:		SO ₂ Licensed Limit max: 560mg/m ³		
Day	Date	SO ₂ Maximum (mg/m ³)	SO ₂ Minimum (mg/m ³)	SO ₂ Average (mg/m ³)
Wednesday	1/08/2018	8	4	5
Thursday	2/08/2018	9	7	8
Friday	3/08/2018	7	3	5
Saturday	4/08/2018	7	4	5
Sunday	5/08/2018	7	3	4
Monday	6/08/2018	6	2	5
Tuesday	7/08/2018	4	1	2
Wednesday	8/08/2018	4	1	2
Thursday	9/08/2018	5	2	3
Friday	10/08/2018	4	2	3
Saturday	11/08/2018	4	0	1
Sunday	12/08/2018	2	0	0
Monday	13/08/2018	2	1	1
Tuesday	14/08/2018	4	0	1
Wednesday	15/08/2018	14	1	4
Thursday	16/08/2018	3	0	1
Friday	17/08/2018	3	1	2
Saturday	18/08/2018	7	0	1
Sunday	19/08/2018	2	0	0
Monday	20/08/2018	2	0	1
Tuesday	21/08/2018	2	0	1
Wednesday	22/08/2018	1	0	1
Thursday	23/08/2018	2	0	1
Friday	24/08/2018	4	0	2
Saturday	25/08/2018	5	3	4
Sunday	26/08/2018	11	3	6
Monday	27/08/2018	5	1	2
Tuesday	28/08/2018	7	2	5
Wednesday	29/08/2018	10	2	4
Thursday	30/08/2018	9	3	6
Friday	31/08/2018	10	3	6
Monthly Results		14	0	3

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7										
Current Month Data:		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs	
Aug-18		pH max 8.5	pH min 6.5		TSS max: Dry weather 40mg/L Wet weather: 150mg/L					
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	1/08/2018	8	8	8	10	9	10	40	0	
Thursday	2/08/2018	8.3	7.5	8.1	10	9	10	36	3	
Friday	3/08/2018	8.3	8.0	8.2	10	9	9	41	0	
Saturday	4/08/2018	8.2	7.6	7.9	10	9	10	49	0	
Sunday	5/08/2018	8.3	8.2	8.2	10	10	10	29	0	
Monday	6/08/2018	8.3	8.0	8.2	10	10	10	67	0	
Tuesday	7/08/2018	8.3	8.1	8.2	10	10	10	30	2	
Wednesday	8/08/2018	8.2	7.8	8.1	11	10	10	36	0	
Thursday	9/08/2018	8.3	7.9	8.1	10	10	10	30	0	
Friday	10/08/2018	8.3	7.9	8.1	10	9	10	48	0	
Saturday	11/08/2018	8.3	7.8	8.1	9	9	9	30	0	
Sunday	12/08/2018	8.2	8.0	8.1	10	9	10	40	0	
Monday	13/08/2018	8.3	7.7	8.1	10	9	9	33	0	
Tuesday	14/08/2018	8.1	7.8	7.9	9	9	9	30	0	
Wednesday	15/08/2018	8.2	7.4	8.0	10	9	9	45	0	
Thursday	16/08/2018	8.2	7.8	8.1	9	9	9	40	0	
Friday	17/08/2018	8.2	8.0	8.1	9	9	9	45	0	
Saturday	18/08/2018	8.0	7.7	7.8	9	9	9	39	0	
Sunday	19/08/2018	8.1	7.8	7.9	9	1	6	45	1	
Monday	20/08/2018	8.3	8.0	8.1	1	1	1	38	0	
Tuesday	21/08/2018	7.9	7.3	7.8	2	1	2	45	0	
Wednesday	22/08/2018	7.7	7.2	7.5	10	1	6	43	0	
Thursday	23/08/2018	7.9	7.6	7.8	9	8	9	40	0	
Friday	24/08/2018	8.0	7.1	7.5	12	8	10	69	1	
Saturday	25/08/2018	8.3	7.1	7.9	16	9	11	54	7	
Sunday	26/08/2018	8.2	7.2	7.8	11	9	10	50	2	
Monday	27/08/2018	8.2	7.3	7.9	11	9	10	62	1	
Tuesday	28/08/2018	8.3	8.1	8.2	9	9	9	33	5	
Wednesday	29/08/2018	8.2	6.8	7.4	12	10	11	48	0	
Thursday	30/08/2018	8.2	6.8	7.3	12	11	12	55	0	
Friday	31/08/2018	8.0	6.8	7.1	12	12	12	39	0	
Monthly Results		8.3	6.8	7.9	16	1	9	1328	22	

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 - quarterly intervals (once every three months)
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.

Licensed Discharge Point 1 - SARP Stack						
Current Month Data: Sep-17		SO2 Licensed Limit Max: 2800mg/m3			SO3 Licensed Limit Max: 50mg/m3	Sampling Information
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)	SO3 Result Required once per quarter (mg/m3)	
Saturday	1/09/2018	1757	642	1095		
Sunday	2/09/2018	1728	541	1185		
Monday	3/09/2018	1533	1307	1388		
Tuesday	4/09/2018	1536	1109	1294		
Wednesday	5/09/2018	1341	1108	1262		
Thursday	6/09/2018	1391	950	1184		
Friday	7/09/2018	1704	1076	1453		
Saturday	8/09/2018	1530	1097	1358		
Sunday	9/09/2018	1674	684	1146		
Monday	10/09/2018	1734	1164	1349		
Tuesday	11/09/2018	1787	921	1241		
Wednesday	12/09/2018	1968	1368	1597		
Thursday	13/09/2018	1596	0	1101		
Friday	14/09/2018	0	0	0		
Saturday	15/09/2018	0	0	0		
Sunday	16/09/2018	0	0	0		
Monday	17/09/2018	0	0	0		
Tuesday	18/09/2018	0	0	0		
Wednesday	19/09/2018	0	0	0		
Thursday	20/09/2018	0	0	0		
Friday	21/09/2018	1378	0	468		
Saturday	22/09/2018	1306	622	948		
Sunday	23/09/2018	1571	560	1267		
Monday	24/09/2018	1583	862	1188		
Tuesday	25/09/2018	1382	1102	1270		
Wednesday	26/09/2018	1539	1076	1336		
Thursday	27/09/2018	1932	925	1372		
Friday	28/09/2018	1890	1126	1572		
Saturday	29/09/2018	1453	874	1190		
Sunday	30/09/2018	1349	504	958		
Monthly Results		1968	0	941		

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 560 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.

Licensed Discharge Point 2: SMBS Stack				
Current Month Data: Sep-17		SO2 Licensed Limit max: 560mg/m3		
Day	Date	SO2 Maximum (mg/m3)	SO2 Minimum (mg/m3)	SO2 Average (mg/m3)
Saturday	1/09/2018	21	2	5
Sunday	2/09/2018	5	1	3
Monday	3/09/2018	5	2	3
Tuesday	4/09/2018	5	3	4
Wednesday	5/09/2018	4	2	3
Thursday	6/09/2018	8	4	6
Friday	7/09/2018	26	2	7
Saturday	8/09/2018	3	1	1
Sunday	9/09/2018	23	0	3
Monday	10/09/2018	13	1	3
Tuesday	11/09/2018	4	2	2
Wednesday	12/09/2018	30	1	4
Thursday	13/09/2018	33	1	3
Friday	14/09/2018	28	1	4
Saturday	15/09/2018	28	0	3
Sunday	16/09/2018	0	0	0
Monday	17/09/2018	1	0	0
Tuesday	18/09/2018	2	0	1
Wednesday	19/09/2018	32	1	5
Thursday	20/09/2018	1	0	1
Friday	21/09/2018	3	0	1
Saturday	22/09/2018	87	1	5
Sunday	23/09/2018	47	0	5
Monday	24/09/2018	3	1	2
Tuesday	25/09/2018	2	0	1
Wednesday	26/09/2018	9	0	6
Thursday	27/09/2018	8	7	7
Friday	28/09/2018	10	8	9
Saturday	29/09/2018	9	6	7
Sunday	30/09/2018	6	3	5
Monthly Results		87	0	4

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.

Licensed Discharge Point 4: Wastewater discharge adjacent to T7									
Current Month Data: Sep-17		pH			Total Suspended Solids (TSS)				Wet Weather >10mm/24hrs
Licensed Limits		pH max 8.5	pH min 6.5		TSS max: Dry weather 40mg/L Wet weather: 150mg/L				
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	1/09/2018	8	7	7	15	12	14	75	1
Sunday	2/09/2018	8.3	7.4	8.0	14	13	14	58	0
Monday	3/09/2018	8.3	7.2	7.8	15	13	14	71	1
Tuesday	4/09/2018	8.0	6.8	7.3	17	14	15	74	6
Wednesday	5/09/2018	7.1	6.8	6.9	16	7	11	60	4
Thursday	6/09/2018	7.2	6.8	6.9	8	7	7	50	0
Friday	7/09/2018	7.4	6.8	7.0	10	7	8	87	0
Saturday	8/09/2018	7.1	6.8	7.0	10	8	8	68	17
Sunday	9/09/2018	8.0	6.8	7.0	8	8	8	49	2
Monday	10/09/2018	8.3	8.2	8.3	8	8	8	53	0
Tuesday	11/09/2018	8.3	7.5	8.0	9	8	8	54	0
Wednesday	12/09/2018	7.6	7.2	7.4	9	8	9	50	0
Thursday	13/09/2018	7.4	7.1	7.3	9	7	8	50	0
Friday	14/09/2018	7.5	7.1	7.4	11	7	8	75	0
Saturday	15/09/2018	7.4	7.0	7.2	10	10	10	18	0
Sunday	16/09/2018	7.2	7.0	7.1	10	10	10	25	0
Monday	17/09/2018	7.3	7.0	7.2	10	10	10	20	0
Tuesday	18/09/2018	7.1	7.1	7.1	10	10	10	15	0
Wednesday	19/09/2018	8.3	7.0	7.6	10	10	10	14	0
Thursday	20/09/2018	8.0	7.2	7.7	10	8	9	30	1
Friday	21/09/2018	8.3	8.1	8.2	9	8	9	20	0
Saturday	22/09/2018	8.1	6.8	7.3	9	7	8	49	0
Sunday	23/09/2018	7.8	6.9	7.2	8	7	8	45	0
Monday	24/09/2018	7.2	6.8	7.0	8	7	8	50	0
Tuesday	25/09/2018	7.8	7.0	7.3	20	8	17	49	0
Wednesday	26/09/2018	7.9	6.9	7.3	23	9	15	80	0
Thursday	27/09/2018	7.9	6.8	7.1	10	8	9	53	0
Friday	28/09/2018	7.7	6.8	7.1	10	8	9	40	0
Saturday	29/09/2018	7.9	6.9	7.1	10	9	9	43	0
Sunday	30/09/2018	8.1	6.8	7.1	10	9	9	43	0
Monthly Results		8.3	6.8	7.3	23	7	10	1469	32