Year	2023
Quarter	1
First day of quarter	01/01/2023
Last day of quarter	31/03/2023
Date of first Sunday for which 4 or more days in the following week fall within the quarter	01/01/2023
Date of last Sunday for which 4 or more days in the following week fall within the quarter	26/03/2023
Number of weeks within quarter	13

W1 Concentrations

Weeks run from Sunday to the following Saturday - all weeks with four or more days within the quarter are reported
Uncertainty of measurement only applied to values exceeding permitted limit.

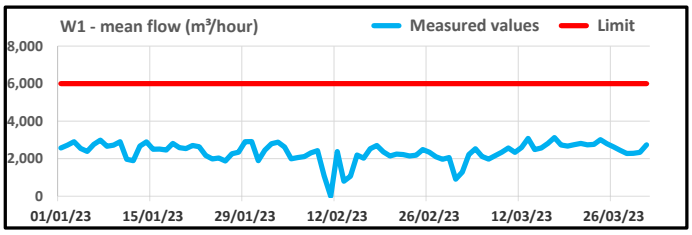
	Weekly average concentrations in mg/l, reported as measured and with uncertainty at limit removed																														
Parameter	Suspended Solids	Suspended Solids - Unc.	COD	COD - Unc.	BOD	BOD - Unc	Sulphides	Sulphides - Unc.	Thiocyanate	Thiocyanate - Unc.	Cyanide	Cyanide - Unc.	PAH	PAH - Unc.	Phenols	Phenols - Unc.	Ammonia + Nitrate + Nitrite	Ammonia + Nitrate + Nitrite - Unc.	Iron	Iron - Unc.	Lead	Lead - Unc.	Zinc	Zinc - Unc.	Nickel	Nickel - Unc.	Total Chromium	Total Chromium - Unc.	Total Hydrocarbons	Total Hydrocarbons - Unc.
Limit	150		220		20		0.1		4		0.1		0.05		0.5		50		5		0.5		2		0.5		0.5		5	
Uncertainty (at limit)	54		23.6		17.90%		0.01		0.4		0.01				0.05		5		0.5		0.05		0.09		0.05		0.05		1	
Week commencing																														
01 January 2023	22		39		7.0		0.03		0.08		0.04		0.001		0.01		14		2.13		0.07		0.9		0.08		0.07		1.6	
08 January 2023	28		57		14.9		0.01		0.24		0.02		0.004		0.01		15		3.82		0.08		2.4	2.33	0.07		0.12		1.7	
15 January 2023	29		35		7.7		0.02		0.19		0.02		0.004		0.01		13		3.78		0.02		0.4		0.03		0.04		1.6	
22 January 2023	29		30		7.5		0.01		0.03		0.03		0.005		0.01		18		4.42		0.03		1.0		0.03		0.02		1.7	
29 January 2023	37		29		2.8		0.01		0.12		0.02		0.003		0.08		18		6.29	5.79	0.05		3.0	2.96	0.04		0.04		1.6	
05 February 2023	25		35		11.2		0.02		0.14		0.01		0.001		0.03		12		4.19		0.07		2.1	2.01	0.06		0.09		1.2	
12 February 2023	25		29		3.4		0.00		0.15		0.02		0.001		0.01		15		2.67		0.07		1.9		0.07		0.07		2.0	
19 February 2023	31		39		6.2		0.01		0.08		0.02		0.001		0.01		14		2.52		0.06		0.9		0.05		0.05		2.9	
26 February 2023	23		43		6.4		0.01		0.09		0.01		0.003		0.01		15		2.94		0.01		0.5		0.00		0.00		1.9	
05 March 2023	30		61		2.4		0.01		1.00		0.05		0.003		0.01		20		2.31		0.06		1.9		0.05		0.05		1.4	
12 March 2023	29		22		1.8		0.01		0.30		0.03		0.002		0.01		14		1.47		0.07		0.8		0.07		0.07		0.6	
19 March 2023	26		42		3.4		0.01		0.10		0.02		0.001		0.01		13		2.46		0.05		0.9		0.19		0.04		1.2	
26 March 2023	82		30		5.9		0.01		0.01		0.02		0.008		0.01		14		4.20		0.05		0.9		0.05		0.04		2.5	
Number > Limit + Unc.		0		0		0		0		0		0		0		0		0		1		0		3		0		0		0

** The following Part A Notifications have been submitted for Q4:*

Part A	*Breach*	*Week Commencing*	*Date submitted*
SSN_23_03A	*W1 LSO Zn weekly average breach*	*08/01/2023*	*16/01/2023*
SSN_23_12A	*W1 LSO Zn weekly average breach*	*29/01/2023*	*06/02/2023*
SSN_23_13A	*W1 LSO Fe weekly average breach*	*29/01/2023*	*06/02/2023*
SSN_23_14A	*W1 LSO Zn weekly average breach*	*05/02/2023*	*13/02/2023*

W1 Flow

		Average flow	
Daily mean	Minimum	0	m³/hour
	Maximum	3,124	m³/hour
	Limit	6,000	m³/hour
	No. > Limit	0	



* Part A S5N_23_23A submitted for loss of data on this date

	Parameter	Average flow	
	Units	m³/hour	
	Limit	6,000	
	Date		
	01 January 2023	2,571	6,000
	02 January 2023	2,719	6,000
	03 January 2023	2,909	6,000
	04 January 2023	2,543	6,000
	05 January 2023	2,389	6,000
	06 January 2023	2,764	6,000
	07 January 2023	2,988	6,000
	08 January 2023	2,665	6,000
	09 January 2023	2,720	6,000
	10 January 2023	2,907	6,000
	11 January 2023	1,970	6,000
	12 January 2023	1,895	6,000
	13 January 2023	2,670	6,000
	14 January 2023	2,898	6,000
	15 January 2023	2,505	6,000
	16 January 2023	2,513	6,000
	17 January 2023	2,460	6,000
	18 January 2023	2,811	6,000
	19 January 2023	2,587	6,000
	20 January 2023	2,539	6,000
	21 January 2023	2,701	6,000
	22 January 2023	2,638	6,000
	23 January 2023	2,174	6,000
	24 January 2023	1,982	6,000
	25 January 2023	2,039	6,000
	26 January 2023	1,879	6,000
	27 January 2023	2,260	6,000
	28 January 2023	2,344	6,000
	29 January 2023	2,903	6,000
	30 January 2023	2,916	6,000
	31 January 2023	1,890	6,000
	01 February 2023	2,456	6,000
	02 February 2023	2,799	6,000
	03 February 2023	2,877	6,000
	04 February 2023	2,620	6,000
	05 February 2023	1,997	6,000
	06 February 2023	2,058	6,000
	07 February 2023	2,109	6,000
	08 February 2023	2,310	6,000
	09 February 2023	2,429	6,000
	10 February 2023	1,089	6,000
*	11 February 2023	0	6,000
	12 February 2023	2,383	6,000
	13 February 2023	802	6,000
	14 February 2023	1,063	6,000
	15 February 2023	2,198	6,000
	16 February 2023	2,026	6,000
	17 February 2023	2,528	6,000
	18 February 2023	2,708	6,000
	19 February 2023	2,360	6,000
	20 February 2023	2,148	6,000
	21 February 2023	2,246	6,000
	22 February 2023	2,219	6,000
	23 February 2023	2,147	6,000
	24 February 2023	2,189	6,000
	25 February 2023	2,484	6,000
	26 February 2023	2,342	6,000
	27 February 2023	2,102	6,000
	28 February 2023	1,966	6,000
	01 March 2023	2,058	6,000
	02 March 2023	911	6,000
	03 March 2023	1,288	6,000
	04 March 2023	2,219	6,000
	05 March 2023	2,531	6,000
	06 March 2023	2,119	6,000
	07 March 2023	1,976	6,000
	08 March 2023	2,162	6,000
	09 March 2023	2,345	6,000
	10 March 2023	2,567	6,000
	11 March 2023	2,339	6,000
	12 March 2023	2,593	6,000
	13 March 2023	3,084	6,000
	14 March 2023	2,487	6,000
	15 March 2023	2,568	6,000
	16 March 2023	2,815	6,000
	17 March 2023	3,124	6,000
	18 March 2023	2,728	6,000
	19 March 2023	2,675	6,000
	20 March 2023	2,746	6,000
	21 March 2023	2,816	6,000
	22 March 2023	2,734	6,000
	23 March 2023	2,766	6,000
	24 March 2023	3,016	6,000
	25 March 2023	2,800	6,000
	26 March 2023	2,631	6,000
	27 March 2023	2,450	6,000
	28 March 2023	2,281	6,000
	29 March 2023	2,287	6,000
	30 March 2023	2,339	6,000
	31 March 2023	2,736	6,000
			6,000

W3 Concentrations

Weeks run from Sunday to the following Saturday - all weeks with four or more days within the quarter are reported.
Uncertainty of measurement only applied to values exceeding permitted limit.

Only sampled when flow present (generally after heavy rain).

	Weekly average concentrations in mg/l, reported as measured (uncertainty not taken into account)			
Parameter	Suspended Solids	Suspended solids - Unc	Total Hydrocarbons	Total Hydrocarbons - Unc
Limit	200		20	
Uncertainty (at limit)	72		4.4	
Week commencing				
01 January 2023	13		1.2	
08 January 2023	16		2.0	
15 January 2023	19		1.6	
22 January 2023	16		3.9	
29 January 2023	28		3.9	
05 February 2023	11		1.7	
12 February 2023	64		2.0	
19 February 2023	15		2.2	
26 February 2023	14		3.6	
05 March 2023	29		2.2	
12 March 2023	22		2.2	
19 March 2023	17		2.0	
26 March 2023	17		2.6	
Number > Limit		0		0

**** No samples taken during this week;*
due to low flow conditions effluent did not overtip weir to Abbey Beach Outfall.

W4 Concentrations

Only sampled when flow present (generally after heavy rain).

	Values reported as measured (uncertainty not taken into account)				
Parameter	pH	Suspended solids (mg/l)	Total Fe (mg/l)	Soluble Fe (mg/l)	Oil and grease
Date					
16th January 2023	9.8	70	1.6	0.8	8.4
20th February 2023	9.6	62	2.4	1.6	0.6
10th March 2023	10.1	46	10.8	4.6	0.7

W5 Concentrations

Uncertainty of measurement only applied to values exceeding permitted limit.

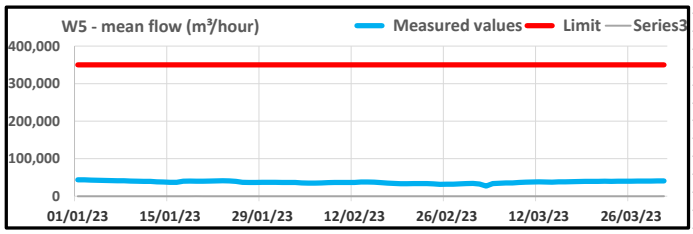
	Suspended solids concentrations in mg/l, reported as measured (uncertainty not taken into account)				
Parameter	Inlet	Outlet	Difference	Difference - Unc.	
Limit			20		
Uncertainty (at limit)			4.4		
Date					
06th January 2023	5	6	1		
12th January 2023	7	8	1		
20th January 2023	2	4	2		
25th January 2023	2	3	1		
3rd February 2023	1	1	0		
8th February 2023	1	1	0		
25th February 2023	1	2	1		
22nd February 2023	1	1	0		
01st March 2023	1	1	0		
09th March 2023	2	2	0		
15th March 2023	0	0	0		
22nd March 2023	4	3	-1		*
28th March 2023	4	5	1		
Number > Limit				0	

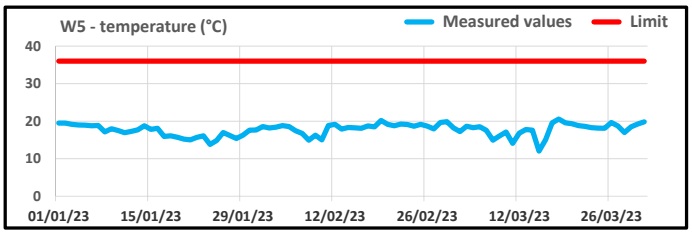
** Difference is compliant where inlet concentrations exceed outlet concentrations.*

**** 3TA down for essential maintenance, hence no 3TA return water sample received.*

W5 Flow and Temperature

		Daily mean flow		Temperature	
Daily mean	Minimum	27,078	m³/hour	12	°C
	Maximum	43,706	m³/hour	21	°C
	Limit	350,000	m³/day	36	°C
	No. > Limit	0		0	





**** 3TA on shutdown for essential maintenance for 4 weeks from 20th September, hence no return flow to the Docks.*

Parameter	Average flow		Temperature	
Units	m³/day		°C	
Limit	350,000		36	
Date				
*** 01 January 2023	43,706	350,000	19.5	36
*** 02 January 2023	43,706	350,000	19.5	36
*** 03 January 2023	42,790	350,000	19.2	36
*** 04 January 2023	42,594	350,000	19.0	36
*** 05 January 2023	42,119	350,000	19.0	36
*** 06 January 2023	41,560	350,000	18.8	36
*** 07 January 2023	41,230	350,000	18.8	36
*** 08 January 2023	41,145	350,000	17.1	36
*** 09 January 2023	40,579	350,000	18.0	36
*** 10 January 2023	39,999	350,000	17.5	36
*** 11 January 2023	39,733	350,000	17.0	36
*** 12 January 2023	39,425	350,000	17.3	36
*** 13 January 2023	38,492	350,000	17.7	36
*** 14 January 2023	37,878	350,000	18.8	36
*** 15 January 2023	37,160	350,000	17.8	36
*** 16 January 2023	37,068	350,000	18.1	36
*** 17 January 2023	40,185	350,000	15.9	36
*** 18 January 2023	40,385	350,000	16.1	36
*** 19 January 2023	40,178	350,000	15.7	36
*** 20 January 2023	40,136	350,000	15.2	36
*** 21 January 2023	40,576	350,000	15.0	36
22 January 2023	40,904	350,000	15.7	36
23 January 2023	41,196	350,000	16.1	36
24 January 2023	40,936	350,000	13.8	36
25 January 2023	39,698	350,000	14.9	36
26 January 2023	37,214	350,000	17.0	36
27 January 2023	36,619	350,000	16.2	36
28 January 2023	36,712	350,000	15.4	36
29 January 2023	36,907	350,000	16.3	36
30 January 2023	36,957	350,000	17.6	36
31 January 2023	37,058	350,000	17.7	36
01 February 2023	36,836	350,000	18.6	36
02 February 2023	36,737	350,000	18.2	36
03 February 2023	36,597	350,000	18.4	36
04 February 2023	35,395	350,000	18.8	36
05 February 2023	35,030	350,000	18.6	36
06 February 2023	35,133	350,000	17.5	36
07 February 2023	35,382	350,000	16.7	36
08 February 2023	36,124	350,000	14.9	36
09 February 2023	36,482	350,000	16.3	36
10 February 2023	36,741	350,000	15.0	36
11 February 2023	36,558	350,000	18.9	36
12 February 2023	36,766	350,000	19.1	36
13 February 2023	37,798	350,000	17.9	36
14 February 2023	37,946	350,000	18.3	36
15 February 2023	37,372	350,000	18.2	36
16 February 2023	36,157	350,000	18.1	36
17 February 2023	34,822	350,000	18.7	36
18 February 2023	33,945	350,000	18.5	36
19 February 2023	33,229	350,000	20.2	36
20 February 2023	33,475	350,000	19.2	36
21 February 2023	33,748	350,000	18.8	36
22 February 2023	33,725	350,000	19.2	36
23 February 2023	33,612	350,000	19.1	36
24 February 2023	32,734	350,000	18.7	36
25 February 2023	31,837	350,000	19.1	36
26 February 2023	32,039	350,000	18.7	36
27 February 2023	32,047	350,000	18.0	36
28 February 2023	32,913	350,000	19.6	36
01 March 2023	33,685	350,000	19.9	36
02 March 2023	34,318	350,000	18.2	36
03 March 2023	32,525	350,000	17.2	36
04 March 2023	27,078	350,000	18.7	36
05 March 2023	33,606	350,000	18.3	36
06 March 2023	34,651	350,000	18.5	36
07 March 2023	35,295	350,000	17.5	36
08 March 2023	35,440	350,000	14.9	36
09 March 2023	36,565	350,000	16.1	36
10 March 2023	37,612	350,000	17.1	36
11 March 2023	37,877	350,000	14.1	36
12 March 2023	38,136	350,000	16.8	36
13 March 2023	37,899	350,000	17.8	36
14 March 2023	37,646	350,000	17.6	36
15 March 2023	38,239	350,000	12.0	36
16 March 2023	38,333	350,000	15.1	36
17 March 2023	38,839	350,000	19.5	36
18 March 2023	39,078	350,000	20.6	36
19 March 2023	39,412	350,000	19.6	36
20 March 2023	39,704	350,000	19.3	36
21 March 2023	39,693	350,000	18.8	36
22 March 2023	39,829	350,000	18.6	36
23 March 2023	39,775	350,000	18.3	36
24 March 2023	39,822	350,000	18.1	36
25 March 2023	39,839	350,000	18.1	36
26 March 2023	40,075	350,000	19.7	36
27 March 2023	40,255	350,000	18.7	36
28 March 2023	40,448	350,000	17.0	36
29 March 2023	40,566	350,000	18.5	36
30 March 2023	40,858	350,000	19.2	36
31 March 2023	40,834	350,000	19.8	36
		350,000		36
		350,000		36
		350,000		36
		350,000		36
		350,000		36