



9 June 2022

The Director: Environmental Law Enforcement
Department of Environmental Affairs and Development Planning

Via email to Achmad.Bassier@westerncape.gov.za; Dale.Wakefield@westerncape.gov.za; and
Derryn.Lendrum@westerncape.gov.za

Dear Sir

**Monthly reporting in terms of Section 5.8 of the Directive
for the Alleged Pollution and Degradation of the Lower Diep River (Milnerton Lagoon).**

Your reference 14/1/1/E1/1/2/3/0627/19

Reporting Period: 30 April to 31 May 2022

The City hereby submits the monthly report as required in the directive, in respect of the period from 30 April 2022 to 31 May 2022. The City has undertaken interventions in accordance with the modified directive and its response thereto, and towards implementation of the Transversal Action Plan, as set out hereunder.

1. Potsdam Wastewater Treatment Works

1.1. Plant Operations

The pond cleaning operations are still underway with Ponds 3, 4, 6 and 7 planned to be cleaned by the end of June 2022, weather and plant availability permitting.

The Potsdam Treated Effluent Pump Station is operational, but not in-use until the cleaning of the TE pond has been completed which is due on 10 June 2022.

1.2. Other Plant Discharges

Apart from the FE discharge, no other discharges have been made nor occurred during this reporting period.

1.3. Treated Effluent

The final effluent quality data from January 2021 to May 2022 is given in the table below.

POTSDAM (COMB) WASTEWATER TREATMENT WORKS

FINAL EFFLUENT COMPLIANCE STATISTICS and HISTORICAL DATA

ACTUAL DATA

	MI/d	mg/l	mg/l	mgN/l	mgN/l	mgP/l	per 100ml	mg/l		mS/m	mg/l	Weekly compliance %
	Flow	TSS	COD	NH3	NO3	ortho-PO4	E. coli	CI	pH	COND	Res.Chl	
Limit		25	75	10	15	10	1000	-	5.5-9.5	250	---	
Date												
23 May 22	42.1	33		15.7	3.5	4.2		199	7.3	122		50%
17 May 22	41.4	40	90	23.1	0.6	8.0	10130	220	7.2	129	0.6	50%
11 May 22	41.0	40	-	18.6	2.2	5.3	5	178	7.4	120	0.3	63%
05 May 22	40.7	3	-	14.9	0.4	5.1	2178	204	7.3	117	0.3	63%
29 Apr 22	40.9			17.8	0.4	5.3	5748	203	7.4	119		75%
19 Apr 22	41.1	236		34.1	0.4	5.8		190	7.4	137	1.0	75%
13 Apr 22	45.7	480		29.7	0.4	6.8	464	217	7.4	154	0.5	75%
06 Apr 22	45.7	320		18.9	0.3	6.6	512	208	7.3	131	0.3	75%
31 Mar 22	40.1	54		12.5	0.6	4.3	10	224	7.4	118	1.0	75%
25 Mar 22	43.5	228		14.0	0.8	2.2	121	231	7.6	124	1.0	75%
14 Mar 22	32.5	68	136	32.7	0.3	9.0	85	192	7.4	130	0.2	63%
08 Mar 22	38.9	40		17.4	0.5	5.6	5	219	7.4	128	0.8	75%
02 Mar 22	36.4	112		15.1	0.5	6.5	73	224	7.3	127	0.5	75%
24 Feb 22	41.9	93		17.1	0.5	5.6	12997	227	7.4	124	0.5	63%
18 Feb 22	42.0	367	540	23.5	0.2	4.7	20000	227	7.4	133	0.2	50%
07 Feb 22	39.9	135	215	19.7	0.2	6.5	200	241	7.5	139	0.3	63%
31 Jan 22	45.1	128	208	13.5	0.1	6.2	400	219	7.4	126	0.8	38%
24 Jan 22	45.9	168	276	22.8	0.1	11.4	32000	239	7.3	140	0.2	38%
17 Jan 22	44.1	36	142	27.4	0.3	8.2	15000	227	7.6	136	0.4	50%
10 Jan 22	45.0	92	151	28.2	0.3	7.2	200000	206	7.5	141	0.2	50%
03 Jan 22	44.0	89	155	30.2	0.3	4.4	37000	207	7.6	143	0.6	50%
28 Dec 21	40.9	145	248	24.4	0.1	7.0	2000000	202	7.4	130	0.6	50%
20 Dec 21	45.6	38	79	8.0	1.0	6.9	2000000	226	7.5	141	1.0	88%
13 Dec 21	48.4	40	108	14.2	0.1	6.5	46000	226	7.5	130	0.1	88%
06 Dec 21	49.1	22	78	9.7	0.5	5.0	31	232	7.5	127	0.8	88%
29 Nov 21	40.9	23		3.2	0.1	4.9	11199	235	7.4	119	0.3	88%
22 Nov 21	49.7	25		4.3	0.1	3.6	216.0	246	7.6	123	0.2	100%
15 Nov 21	44.3	22	69	11.8	0.5	6.1	10.0	208	7.4	128	1.0	88%
08 Nov 21	46.3	17	43	14.8	0.2	4.7	5.0	239	7.6	142	1.0	88%
02 Nov 21	43.9	15	49	16	0.1	3.7	5.0	227	7.5	128	0.7	88%
25 Oct 21	47.0	9	48	1.9	0.3	2.1	>10000	237	7.7	124	0.5	88%
18 Oct 21	41.6	10	50	3.3	0.6	2.0	50.0	258	7.7	130	0.8	100%
11 Oct 21	39.0	12	72	17.4	0.1	2.1	20000	282	7.6	146	0.5	75%
04 Oct 21	43.0	12	64	10.7	0.3	3.3	2000	239	7.5	133	0.5	75%
27 Sep 21	43.1	18	76	20.3	1.6	3.9	33	240	7.5	147	1.0	75%
20 Sep 21	40.4	5	66	17.6	0.7	4	<100	264	7.4	143	1.0	88%
13 Sep 21	41.0	10	44	24.9	0.5	2.4	14000	255	7.6	148	0.3	75%
06 Sep 21	50.1	19	49	5.2	4.4	0.6	150	242	7.6	130	0.5	100%
30 Aug 21	50.1	91	197	6.2	4	0.4	530	218	7.6	123	0.5	75%
23 Aug 21	46.3	19		8.5	1.4	2.8	500	233	7.5	127	0.7	88%
16 Aug 21	45.7	11	48	6.6	0.7	1.2	1000	226	7.5	121	0.5	88%
10 Aug 21	45.7	18	58	3.7	2.5	2.0	100	230	7.5	119	0.7	100%
02 Aug 21	45.7	23	55	0.6	2.2	1.5	4900	248	7.4	132	0.4	88%
26 Jul 21	49.0	10	54	5.0	3.9	1.8	3900	241	7.6	126	0.5	88%
19 Jul 21	52.7	19	76	18.0	0.5	1.5	6500	228	7.6	137	0.4	63%
12 Jul 21	49.0	10	29	16.4	0.7	1.9	20	252	7.7	131	0.5	88%
05 Jul 21	57.9	24	95	17.9	0.7	1.4	24	222	7.6	128	1.0	75%
28 Jun 21	42.2	16	83	24.8	2.9	2.1	24	222	7.7	137	0.2	75%
21 Jun 21	40.4	18	84	27.1	1.0	2.8	36	185	7.7	134	0.3	75%
14 Jun 21	39.0	17	68	10.8	5.3	1.4	<1	206	7.6	125	0.5	88%
07 Jun 21	40.3	31	101	11.2	2.9	1.8	10	215	7.4	127	0.5	63%
31 May 21	39.4	26	76	0.9	6.3	0.9	6200	242	7.5	127	0.2	63%
24 May 21	43.9	30	76	0.2	10.4	0.9	28	223	7.3	116	1.6	75%
17 May 21	46.3	24	50	2.7	2.7	1.3	5	215	7.4	116	0.4	100%
10 May 21	43.1	10	77	0.2	2.9	1.8	-	202	7.3	108	0.2	88%
03 May 21	41.1	56	159	12.1	3.7	5.6	330	232	7.2	124	0.4	63%
26 Apr 21	38.5	17	69	15.0	5.2	6.7	20000	186	7.4	127	0.2	75%
19 Apr 21	36.7	48	69	0.2	0.6	3.4	1	265	7.4	129	2.0	88%
12 Apr 21	36.6	79	139	8.8	0.6	5.2	10	250	7.3	126	0.2	75%
2021/04/09 resample	39.1	33	84	3.9	0.8	4.7	5	244	7.3	126	0.2	75%
29 Mar 21	37.4	17	75	11.7	1.7	7.4	260	223	7.3	130	0.1	88%
23 Mar 21	36.6	25	76	18.1	1.5	6.1	1190	202	7.5	132	0.2	63%
15 Mar 21	36.9	56	118	27.7	0.3	8.8	100	219	7.3	141	0.3	63%
08 Mar 21	46.0	25	83	25.6	0.4	8.6	240	259	7.4	150	1.0	75%
01 Mar 21	44.1	12	73	8.5	0.1	7.3	22	238	7.3	134	0.2	100%
22 Feb 21	44.9	16	66	13.1	14.3	6.3	7	240	7.5	133	0.2	88%
15 Feb 21	42.8	12	66	7.1	0.3	5.3	330	226	7.4	135	0.1	100%
08 Feb 21	44.5	3	64	15.7	0.1	8.7	1	241	7.6	141	0.2	88%
01 Feb 21	43.1	9	66	16.3	0.1	6.6	1	251	7.6	138	0.2	88%
25 Jan 21	42.6	7	61	3.8	0.6	4.3	140	252	7.6	128	0.5	100%
18 Jan 21	39.1	10	57	11.2	0.2	8.8	2000	239	7.6	131	0.1	75%
11 Jan 21	43.3	7	103	4.3	0.5	5.1	5	244	7.6	125	0.3	88%
04 Jan 21	48.3	7	59	4.4	2.5	2.4	5	253	7.6	125	0.5	100%

LEGEND

	Non-compliant with Department of Water and Sanitation (DWS) Regulation 991
	Compliant with Department of Water and Sanitation (DWS) Regulation 991
	Results outstanding from Scientific Services Branch (SSB)

WATER & SANITATION HEAD OFFICE

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Making progress possible. Together.

2. Erica Road Outfall

The City's sewer reticulation department continued with daily pumping from Erica road outlet to sewer daily during the latest reporting period. The new litter grid is working well although it is sometimes submerged during rainfall events. It is being cleaned weekly by the City's biodiversity branch and the solid waste teams.



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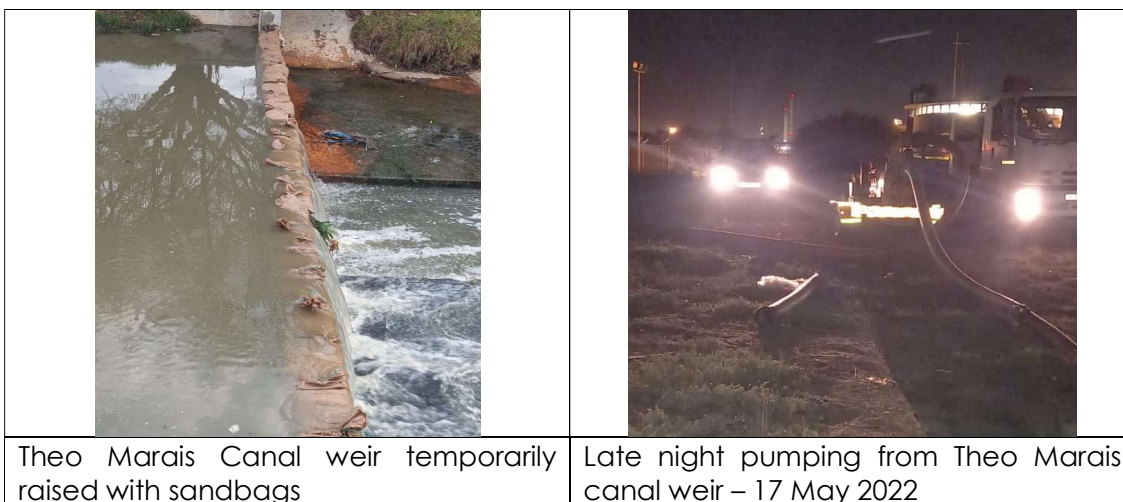


Lukhosi Consulting Engineers are progressing well on the “Milky Way” project that aims to improve water quality at the Erica Road outfall. They have completed surveying and have submitted their third Progress Report.

3. Pump Stations

On 17 May 2022 at about 12:30pm W&S operations staff were alerted to intermittent overflows occurring at Koeberg Road pump station. It was discovered that three of the four operational pumps had tripped. Staff were able to reset two of the three pumps and an electrician was called to site to attend to the third pump. Upon further investigation, it was discovered that the electrical drive of the 3rd pump had to be replaced. The unit was replaced on the same day and the pump station was off overflow by 17:20pm.

The teams placed sandbags at the weir in order to elevate the height of the weir in order to contain the sewage. Some of the sewage had overflowed from the weir into the canal. Majority of the sewage was contained within the weir and over pumped back into a designated holding pond. Vacuum tankers were also mobilised to assist in emptying the weir area. Pumping from the weir to sewer continued until 25 May and the sandbags were removed.



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<p>Pump set up. Theo Marais Canal weir 23 May</p>	<p>Continued pumping to sewer.</p>

At around 5pm on 22 May it was noted that the Table View West pump station was not online. The generator had failed to switch on at the start of load shedding. W&S staff arrived within an hour and a half and started the generator manually. Some sewerage may have spilt to the reed bed once the wet well filled up

4. Communications

The City reported to Sub- Councils 3 & 15 on 21 April 2022.

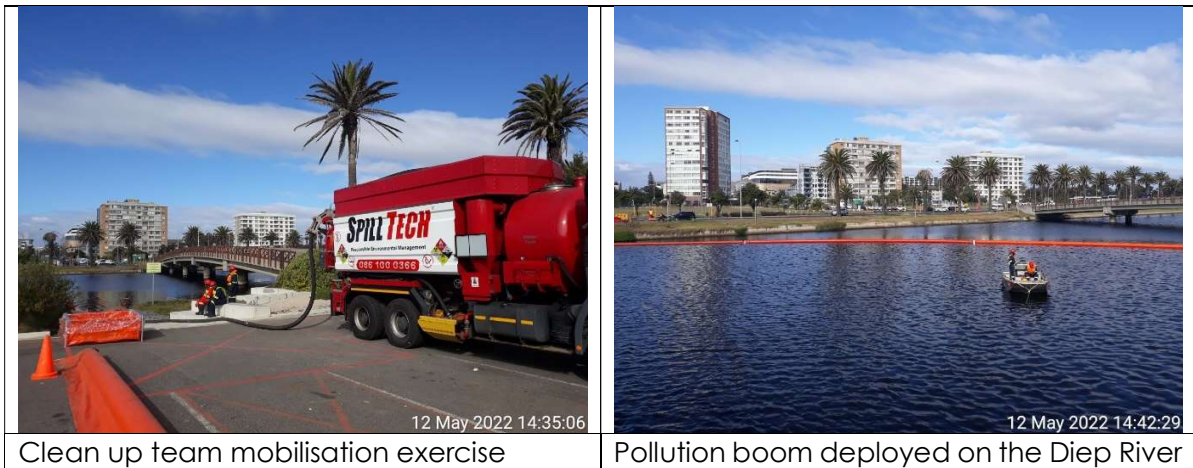
5. General

On 12 and 13 May, the South African Maritime Safety Authority (SAMSA) and South Africa's Interim Incident Management Organisation held an accidental oil spillage exercise in Table Bay as part of a multi-national exercise in ocean oil spillage incidents management training which was held in Cape Town. The training involved about 50 delegates from government, non-government and private sector institutions in South Africa, Namibia and Angola. Part of the exercise involved testing the readiness of teams tasked with preventing and mitigating pollution in the Diep River mouth.

<https://blog.samsa.org.za/2022/05/11/live-ocean-accidental-oil-spill-incident-management-exercise-off-the-port-of-cape-town-thurs-friday-imorg/>

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Should you have any questions regarding the contents of this report, please notify us accordingly.

We trust that you find the above to be in order.

Yours faithfully,

Michael Killick

WhatsApp: 063 407 3699 **Online:** www.capetown.gov.za/servicerequests

Email: water@capetown.gov.za **SMS:** 31373 (max 160 characters) **Phone:** 0860 103 089

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