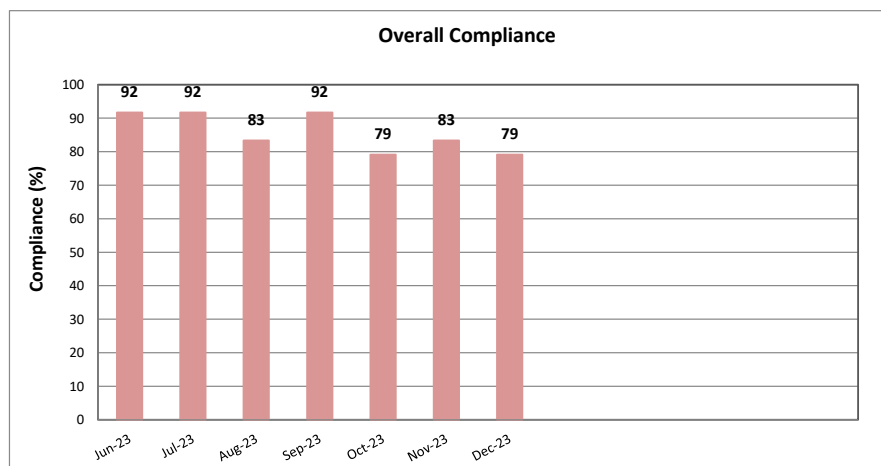


December 2023
Swartkops Final Diesel Dam
Uitenhage
Site Information

Date of Sampling	12/12/2023
Sampling Point Identification	26°14,565'S 28°26,145'E
Depot	Swartkops Final Diesel Dam
Region	Uitenhage
Treatment Technology	Not applicale
Design Information	Not applicale
Design/Current Capacity	Not applicale
Maintenance	Not applicale
Flow Meter	None
Responsible Authority	Nelson Mandela Bay Metropolitan Municipality
Discharge Point	Municipal sewer

### Compliance History



Findings	Site Visit Photo		
Overall Compliance	79%		
Non-compliant Parameters	EC, COD,	TSS, Cl,	O&G
Plant Operational	Yes	No	n/a
Maintenance	Yes	No	n/a
Site Neatness	Yes	No	Spillage
Access	Easy	Difficult	Risk
Recommendation(s)			

## Compliance Summary

December 2023

Parameter	Temperature		pH Value		EC		COD		TSS		Chloride		Sulphate		Soap,Oil&Grease		Phosphate		Ammonia	
Month	44°C		6.0 - 12.0		500 mS/m		10000 mg/l		1000 mg/l		1000 mg/l		1500 mg/l		450 mg/l		mg/l		mg/l	
June 2023	18.4	C	8.3	C	530	N	86	C	95	C	1735	N	180	C	0	C	1	-	2	-
July 2023	18.5	C	8.8	C	527	N	115	C	64	C	2042	N	190	C	0	C	0	-	2	-
August 2023	21.7	C	7.5	C	588	N	30472	N	1909	N	1941	N	170	C	333	C	1	-	2	-
September 2023	24.1	C	7.8	C	795	N	822	C	47	C	2861	N	281	C	0	C	1	-	2	-
October 2023	22.6	C	7.8	C	501	N	16048	N	6643	N	1761	N	194	C	12897	N	0	-	0	-
November 2023	26.2	C	7.7	C	358	C	29108	N	21314	N	1246	N	58	C	1349	N	2	-	3	-
December 2023	25.7	C	7.0	C	543	N	12519	N	27470	N	1939	N	24	C	24972	N	3	-	10	-
Parameter	Arsenic		Boron		Cadmium		Chromium		Cobalt		Copper		Iron		Lead		Manganese		Mercury	
Month	5 mg/l		5 mg/l		5 mg/l		20 mg/l		5 mg/l		20 mg/l		5 mg/l		5 mg/l		5 mg/l		5 mg/l	
June 2023	0.0	C	2.1	C	0.0	C	0.0	C	0.0	C	0.0	C	0.2	C	0.0	C	0.1	C	0.0	C
July 2023	0.0	C	2.5	C	0.0	C	0.0	C	0.0	C	0.0	C	0.2	C	0.0	C	0.1	C	0.0	C
August 2023	0.0	C	1.3	C	0.0	C	0.0	C	0.0	C	0.0	C	0.2	C	0.0	C	0.1	C	0.0	C
September 2023	0.0	C	3.3	C	0.0	C	0.0	C	0.0	C	0.0	C	0.4	C	0.0	C	0.3	C	0.0	C
October 2023	0.0	C	2.1	C	0.0	C	0.0	C	0.0	C	0.0	C	1.0	C	0.0	C	0.2	C	0.0	C
November 2023	0.0	C	4.0	C	0.0	C	0.0	C	0.0	C	0.0	C	1.8	C	0.0	C	0.3	C	0.0	C
December 2023	0.0	C	2.9	C	0.0	C	0.0	C	0.0	C	0.0	C	0.4	C	0.0	C	0.4	C	0.0	C

C = Compliant

N = Non-compliant

NS = No Sample Received

NA = Unable to Analyse

Parameter	Molybdenum		Nickel		Selenium		Silver		Sodium		Titanium		Zinc	
Month	5 mg/l		20 mg/l		5 mg/l		20 mg/l		mg/l		20 mg/l		5 mg/l	
June 2023	0.0	C	0.0	C	0.0	C	0.0	C	944	-	0.0	C	0.0	C
July 2023	0.0	C	0.0	C	0.0	C	0.0	C	1283	-	0.0	C	0.0	C
August 2023	0.0	C	0.0	C	0.0	C	0.0	C	573	-	0.0	C	0.0	C
September 2023	0.0	C	0.0	C	0.0	C	0.0	C	1811	-	0.0	C	0.0	C
October 2023	0.1	C	0.0	C	0.0	C	0.0	C	1082	-	0.0	C	0.1	C
November 2023	0.0	C	0.0	C	0.0	C	0.0	C	1056	-	0.0	C	0.1	C
December 2023	0.0	C	0.0	C	0.0	C	0.0	C	1144	-	0.0	C	0.0	C

C

 = Compliant

N

 = Non-compliant

NS

 = No Sample Received

NA

 = Unable to Analyse

## CERTIFICATE OF ANALYSES

CONFIDENTIAL

Identification	UTH Swartkops Final Diesel Dam	Report/Lab number	0812/23
Customer	Transnet Engineering	Date Sampled	12/12/2023
Contact Person	Mmalaka Phejane	Date Received	20/12/2023
Contact number	012 391 1320	Date Started-Completed In-house	09-17/01/2024
Email Address	<a href="mailto:Mmalaka.Phejane@transnet.net">Mmalaka.Phejane@transnet.net</a>	Sub Completed	11/01/2024
Physical Address	160 Lynette Street, Kilner Park, Pretoria	Date of Report	17/01/2024

A N S	Determinants	Unit	Method	Sample ID
				0812-01
N	Temperature	°C	-	25.7
A	pH Value at 25°C	-	LA001	7.0
A	Conductivity	mS/m	LA003	543
A	Chemical Oxygen Demand	mg/l	LA013	12519
N	Total Suspended Solids	mg/l	LA006	27470
A	Chloride - Cl	mg/l	LA029	1939
A	Sulphate - SO <sub>4</sub>	mg/l	LA030	24
S	Oil & Grease	mg/l	-	24972
A	Ortho-Phosphate - P	mg/l	LA028	2.7
A	Ammonia - NH <sub>3</sub> as N	mg/l	LA033	9.7
S	Arsenic - As	mg/l	-	0.012
S	Boron - B	mg/l	-	2.86
S	Cadmium - Cd	mg/l	-	<0.001
S	Chromium - Cr	mg/l	-	<0.025
S	Cobalt - Co	mg/l	-	<0.025
S	Copper - Cu	mg/l	-	<0.010
S	Iron - Fe	mg/l	-	0.416
S	Lead - Pb	mg/l	-	0.004
S	Manganese - Mn	mg/l	-	0.391
S	Mercury - Hg	mg/l	-	<0.001
S	Molybdenum - Mo	mg/l	-	<0.025
S	Nickel - Ni	mg/l	-	<0.025

**NA** - No Analysis done due to incompatible sample matrix; **A** – SANAS Accredited Method, **N** – Method Not Accredited – Results marked “N” in this report are not included in the SANAS Schedule of Accreditation for this laboratory; **S** – indicates Subcontracted Test - Results marked “Subcontracted Test” in this report are not included in the SANAS Schedule of Accreditation for this laboratory. Results only apply to the samples as received and tested.

Uncertainty of Measurement data (for methods included in the SANAS Schedule of Accreditation) is available on request, as are dates of analysis for each parameter tested. The report shall not be reproduced except in full without approval of the laboratory. Sampling dates and sample identification are given from information provided by the customer.

*R Lax*  
**Technical Signatory**

## CERTIFICATE OF ANALYSES

CONFIDENTIAL

A N S	Determinants	Unit	Method	Sample ID
				0812-01
S	Selenium - Se	mg/l	-	0.001
S	Silver - Ag	mg/l	-	<0.025
S	Sodium - Na	mg/l	-	1144
S	Titanium - Ti	mg/l	-	<0.03
S	Zinc - Zn	mg/l	-	<0.025
End of Certificate				

Comments (sample damages/leakages, also state if this report replaces any other report (ammended) :

The water(liquid) and oil within the sample has been split, the metals have been analysed on the liquid/water part of the sample. (split was necessary for sub lab to be able to analyse the metals without damaging their equipment.)

NA - No Analysis done due to incompatible sample matrix; A – SANAS Accredited Method, N – Method Not Accredited – Results marked “N” in this report are not included in the SANAS Schedule of Accreditation for this laboratory; S – indicates Subcontracted Test - Results marked “Subcontracted Test” in this report are not included in the SANAS Schedule of Accreditation for this laboratory. Results only apply to the samples as received and tested.

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*R Lax*  
**Technical Signatory**