

January 2025

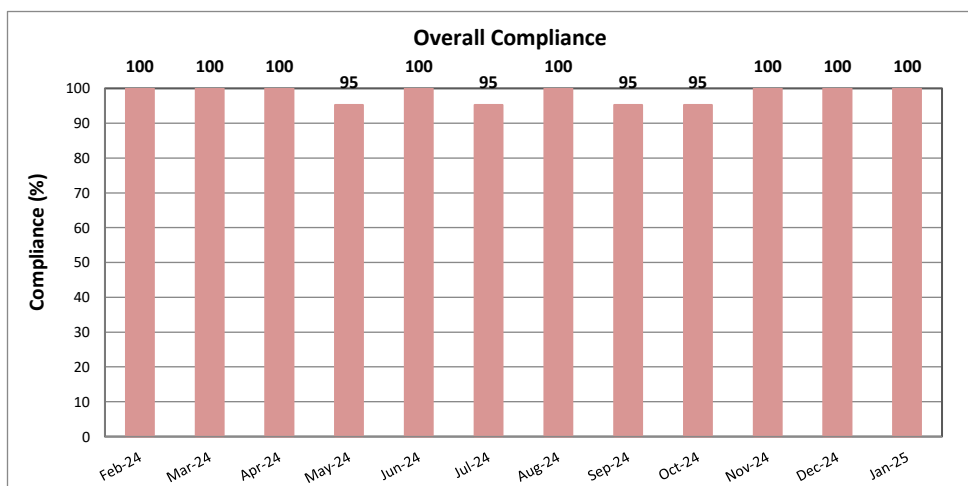
East London Cambridge Effluent Plant

Uitenhage

Site Information

Date of Sampling	03/01/2025
Sampling Point Identification	-32.967250 27.899750
Depot	East London Cambridge Effluent Plant
Region	Uitenhage
Treatment Technology	Not available/Unknown
Design Information	Not available/Unknown
Design/Current Capacity	Not available/Unknown
Flow Meter	None
Responsible Authority	Buffalo City Metropolitan Municipality
Discharge Point	Municipal sewer

Compliance History



Findings

Overall Compliance	100%		
Non-compliant Parameters			
Plant Operational	Yes	No	n/a
Maintenance	Yes	No	n/a
Site Neatness	Yes	No	Spillage
Access	Easy	Difficult	Risk

Recommendation(s)

Vegetation around the plant.

Site Visit Photo



Parameter	Temperature		pH Value		EC		COD		TSS		Chloride		Sulphate		Soap,Oil&Grease		Phosphate		Ammonia	
Month	44°C		6.0 - 12.0		400 mS/m		mg/l		1500 mg/l		750 mg/l		500 mg/l		400 mg/l		25 mg/l		mg/l	
February 2024	27.1	C	7.3	C	48	C	143		28	C	64	C	31	C	12	C	1	C	0	
March 2024	27.8	C	6.8	C	28	C	68		48	C	42	C	22	C	2	C	1	C	0	
April 2024	19.9	C	7.3	C	37	C	121		12	C	46	C	33	C	4	C	1	C	0	
May 2024	20.2	C	7.2	C	57	C	421		217	C	50	C	26	C	0	C	3	C	0	
June 2024	14.4	C	7.7	C	49	C	31		19	C	29	C	28	C	0	C	0	C	0	
July 2024	13.9	C	8.3	C	89	C	37		11	C	59	C	44	C	0	C	0	C	0	
August 2024	18.6	C	6.9	C	18	C	15		14	C	8	C	4	C	18	C	0	C	0	
September 2024	21.3	C	7.2	C	19	C	321		20	C	9	C	2	C	0	C	0	C	0	
October 2024	27.5	C	7.3	C	75	C	49		18	C	57	C	42	C	0	C	0	C	0	
November 2024	23.7	C	7.6	C	76	C	44		8	C	56	C	37	C	2	C	0	C	0	
December 2024	30.6	C	7.3	C	60	C	4		13	C	38	C	27	C	0	C	0	C	0	
January 2025	26.2	C	7.6	C	80	C	18		14	C	49	C	35	C	0	C	0	C	0	
Parameter	Arsenic		Boron		Cadmium		Chromium		Cobalt		Copper		Iron		Lead		Manganese		Mercury	
Month	5 mg/l		5 mg/l		5 mg/l		20 mg/l		mg/l		20 mg/l		20 mg/l		5 mg/l		mg/l		1 mg/l	
February 2024	0.0	C	0.4	C	0.0	C	0.0	C	0.0		0.0	C	1.5	C	0.0	C	0.3		0.0	C
March 2024	0.0	C	0.0	C	0.0	C	0.0	C	0.0		0.0	C	1.1	C	0.0	C	0.0		0.0	C
April 2024	0.0	C	0.3	C	0.0	C	0.0	C	0.0		0.0	C	0.9	C	0.0	C	0.2		0.0	C
May 2024	0.0	C	12.0	N	0.0	C	0.0	C	0.0		0.0	C	1.7	C	0.0	C	0.2		0.0	C
June 2024	0.0	C	0.3	C	0.0	C	0.0	C	0.0		0.0	C	0.2	C	0.0	C	0.0		0.0	C
July 2024	0.0	C	20.0	N	0.0	C	0.1	C	0.0		0.1	C	1.9	C	0.0	C	1.1		0.0	C
August 2024	0.0	C	0.0	C	0.0	C	0.0	C	0.0		0.0	C	0.0	C	0.0	C	0.0		0.0	C
September 2024	0.0	C	8.2	N	0.0	C	0.0	C	0.0		0.0	C	1.2	C	0.0	C	0.2		0.0	C
October 2024	0.0	C	8.7	N	0.0	C	0.0	C	0.0		0.0	C	0.6	C	0.0	C	0.3		0.0	C
November 2024	0.0	C	1.1	C	0.0	C	0.0	C	0.0		0.0	C	0.3	C	0.0	C	0.2		0.0	C
December 2024	0.0	C	0.2	C	0.0	C	0.0	C	0.0		0.0	C	0.2	C	0.0	C	0.1		0.0	C
January 2025	0.0	C	0.3	C	0.0	C	0.0	C	0.0		0.0	C	0.1	C	0.0	C	0.0		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		mg/l		500 mg/l		mg/l		20 mg/l	
February 2024	0.0	C	0.0	C	0.0	C	0.0		109	C	0.0		0.1	C
March 2024	0.0	C	0.0	C	0.0	C	0.0		61.0	C	0.0		0.0	C
April 2024	0.0	C	0.0	C	0.0	C	0.0		69.0	C	0.0		0.1	C
May 2024	0.0	C	0.0	C	0.0	C	0.0		165	C	0.0		0.8	C
June 2024	0.0	C	0.0	C	0.0	C	0.0		49.0	C	0.0		0.0	C
July 2024	0.0	C	0.1	C	0.0	C	0.0		135	C	0.0		0.1	C
August 2024	0.0	C	0.0	C	0.0	C	0.0		47.0	C	0.0		1.0	C
September 2024	0.0	C	0.0	C	0.0	C	0.0		194	C	0.0		0.0	C
October 2024	0.0	C	0.0	C	0.0	C	0.0		101	C	0.0		0.2	C
November 2024	0.0	C	0.0	C	0.0	C	0.0		106	C	0.0		0.0	C
December 2024	0.0	C	0.0	C	0.0	C	0.0		65.0	C	0.0		0.0	C
January 2025	0.0	C	0.0	C	0.0	C	0.0		113	C	0.0		0.0	C

C = Compliant

N = Non-compliant

NS = No Sample Received

NA = Unable to Analyse

CERTIFICATE OF ANALYSES

CONFIDENTIAL

Identification	UTH East London Cambridge Effluent Plant	Report/Lab number	0029/25
Customer	Transnet Engineering	Date Sampled	03/01/2025
Contact Person	Mmalaka Phejane	Date Received	10/01/2025
Contact number	012 391 1320	Date Started-Completed In-house	10-16/01/2025
Email Address	Mmalaka.Phejane@transnet.net	Sub Completed	03/02/2025
Physical Address	160 Lynette Street, Kilner Park, Pretoria	Date of Report	04/02/2025

A N S	Determinants	Unit	Method	Sample ID
				0029-01
N	Temperature	°C	-	26.2
A	pH Value at 25°C	-	LA001	7.6
A	Conductivity	mS/m	LA003	80
N	Chemical Oxygen Demand	mg/l	LA012	<20
N	Total Suspended Solids	mg/l	LA006	14
A	Chloride - Cl	mg/l	LA029	49
A	Sulphate - SO ₄	mg/l	LA030	35
S	Oil & Grease	mg/l	-	<0.100
A	Ortho-Phosphate - P	mg/l	LA028	<1.0
A	Ammonia - NH ₃ as N	mg/l	LA033	<0.5
S	Arsenic - As	mg/l	-	<0.001
S	Boron - B	mg/l	-	0.340
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	-	0.063
S	Lead - Pb	mg/l	-	<0.001
S	Manganese - Mn	mg/l	-	0.028
S	Mercury - Hg	mg/l	-	<0.001
S	Molybdenum - Mo	mg/l	-	0.002
S	Nickel - Ni	mg/l	-	<0.025
S	Selenium - Se	mg/l	-	<0.001

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
				0029-01
S	Silver - Ag	mg/l	-	<0.025
S	Sodium - Na	mg/l	-	113
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) :

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