REQUEST FOR QUOTATION - WATER SAMPLES TESTING (SAMRC DELFT Site)

SAMRC invites registered services providers to forward a quotation for chemical analysis on a sample of black water.

The location of the sewerage plant is SAMRC DELFT, OFF Hindle Road, Brentwood Park, Driftsands. You are advised to check the location of the sewerage plant on google map before quoting as you will be required to collect black water at the sewerage plant. Please include costs to collect these samples in your quote.

The sampling campaign be undertaken by a SANAS-accredited laboratory to record the required information. The following table provides a general overview as to the type of sampling needed, with more detail on sampling thereafter. These are 7 additional composite samples for each day of the 7 days the samples were taken.

Contact Details:

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ANNEXURE B

PROPOSAL FOR SAMPLING CAMPAIGN

Sample location	Ref.	No. of samples						
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Screened influent	**G1**	12	12	12	12	12	12	12
Pond effluent	**G2**	0	0	1	1	1	0	0
Screened influent (7-day)	**C1**	12	12	12	12	12	12	12
Screened influent (1-day)	**C2**	0	0	0	10	0	0	0
Treated wastewater	**C3**	12	12	12	12	12	12	12

Note:

1. unf unfiltered
2. f filtered
3. ff filter flocculated

GRAB SAMPLES:

G1:

G1	Screened influent
G1.1	Chemical Oxygen Demand (unf)
G1.2	Chemical Oxygen Demand (COD) (f)
G1.3	Conductivity/TDS

G2:

G2	Pond effluent
G2.1	Chemical Oxygen Demand (unf)
G2.2	Chemical Oxygen Demand (COD) (f)
G2.3	Nitrate
G2.4	pH
G2.5	Free and Saline Ammonia (FSA)
G2.6	Conductivity/TDS
G2.7	Ortho Phosphate (Ortho-P)

COMPOSITE SAMPLES:

C1:

C1	Screened influent (7-day composite)
C1.1	Chemical Oxygen Demand (COD) (unf)
C1.2	Chemical Oxygen Demand (COD) (f)
C1.3	Chemical Oxygen Demand (COD) (ff)
C1.4	Biological Oxygen Demand (5d) (f)
C1.5	Fats, oils and grease
C1.6	Free and Saline Ammonia (FSA)
C1.7	Total Kjeldahl Nitrogen (TKN)
C1.8	Ortho Phosphate (Ortho-P)
C1.9	Total Phosphate (T-P)
C1.10	Total Suspended Solids (TSS)

C1.11	Volatile Suspended Solids (VSS)
C1.12	Alkalinity (Alk)
C1.13	pH
C1.14	Conductivity/TDS

C2:

C2	Screened influent (1-day composite)
C2.1	Nitrate
C2.2	Sulphate
C2.3	Surfactants / detergents
C2.4	Residual chlorine
C2.5	Phenols
C2.6	Formaldehyde
C2.7	Potassium
C2.8	Pesticides / herbicides screen
C2.9	Toxicity / inhibition test
C2.10	Chromium
C2.11	Copper
C2.12	Zinc
C2.13	Nickel
C2.14	Lead
C2.15	Cadmium
C2.16	Mercury
C2.17	Arsenic
C2.18	Iron
C2.19	Manganese

C3:

C3	Treated wastewater
C3.1	Chemical Oxygen Demand (COD) (unf)[1]
C3.2	Chemical Oxygen Demand (COD) (f)[2]
C3.3	Chemical Oxygen Demand (COD) (ff)[3]
C3.4	Biological Oxygen Demand (5d) (f)[2]
C3.5	Free and Saline Ammonia (FSA)
C3.6	Ortho Phosphate (Ortho-P)
C3.7	Total Phosphate (T-P)
C3.8	Total Suspended Solids (TSS)
C3.9	Volatile Suspended Solids (VSS)
C3.10	Alkalinity (Alk)
C3.11	pH
C3.12	Conductivity/TDS

ANNEXURE C
SAMPLING POINTS AND LOCATIONS

