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Certificate of Analysis**OVERSTRAND MUNICIPALITY: SC1774/2017****Hawston Sewage Treatment Plant****Report no.: 3907**

Grab samples of raw sewage and various process effluents collected on 25 August 2017

SAMPLE	Raw Sewage	Aeration Tank	Settling Tank	Final Effluent	General Limit
pH (at 25 °C)	-	-	-	-	5.5-9.5
pH (at 25 °C) Field	7.46	7.40	7.31	8.67	5.5-9.5
Settleable Solids (ml/l)	15.0	1000	<0.10	<0.10	N/A
Conductivity (mS/m) (at 25 °C)	195	-	-	133	150(F + 70)
Faecal Coliforms (count per 100 ml)	-	-	-	<1	1000 Max.
Chemical Oxygen Demand (mg/l)	1016	-	59.9	158	75.0 Max.
Chemical Oxygen Demand (Filtered) (mg/l)	-	58.6	-	59.8	(Algae removed)
Total Kjeldahl Nitrogen (mg/l as N)	106	-	-	-	N/A
Ammonia Nitrogen (mg/l as N)	94.9	4.1	1.7	3.7	6.0 Max.
Nitrate Nitrogen. (mg/l as N)	-	0.87	-	0.32	15.0 Max.
Nitrite Nitrogen (mg/l as N)	-	0.29	-	<0.20	
Total Suspended Solids (mg/l)	-	-	-	-	25 Max.
Volatile Suspended Solids (mg/l)	-	-	-	-	N/A

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SAMPLE	Raw Sewage	Aeration Tank	Settling Tank	Final Effluent	General Limit
Total Phosphate (mg/l as P)	13.6	-	-	-	N/A
Ortho Phosphate (mg/l as P)	-	-	-	3.7	10 Max.
Free Chlorine (mg/l)	-	-	-	<0.05	0.25 Max.
Total Chlorine (mg/l)	-	-	-	<0.05	N/A
Dissolved Oxygen (mg/l)	-	0.25	0.22	-	N/A

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