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J.V. SMITH Pr. Eng. B.Sc.(Eng) Rand. M.S.A.I.C.E. M(SA)Cons.E.

Your Ref.

Our Ref. G9/1621

2004-06-15

Executive Director : Engineering Services,
Outer West Operational Entity,
P.O. Box 36,
KLOOF,
3640

Dear Sir,

re: PROPOSED PORTIONS 1 TO 4 OF PORTION 4678 FOREST HILLS
GEOTECHNICAL REPORT

We attach a copy of our drawing G9/1621 which shows, superimposed on the Land Surveyor's layout plan of the abovementioned subdivisions, the extent of notional evapotranspiration areas of 390 square metres, which will be required for the on site disposal of effluent from future dwellings on these properties.

Metro Wastewater Management's Appendix B which provides the design factors for the determination of the evapotranspiration areas required, is attached, and it is confirmed that our report on a percolation test result was submitted during March 2004.

It is recommended that the subdivision be approved from the sewage disposal aspect.

Yours faithfully,


VERNON SMITH & ASSOCIATES

JVS/RdB

c.c. : Mr. J. Baker



M A P P L E D

INFORMATION TO BE SUBMITTED WITH THE APPLICATION

Submitted by: **J. V. Smith Pr. Eng.** Qualifications and registration number: **710367.**

Development Information		Pfns 1 to 4 of ERF 4978 FOREST, HILLS			
Locality					
Development type		SUBDIVISION			
Area of plot	1763, 1241 1556, 5552	Area of Residence	FUTURE	Paved areas	
Water supply - cross out the relevant block			Full pressure	Semi pressure	
Effluent loading	Number of bedrooms		Effluent loading as per SABS 0400		
	3		900		
Geotechnical information					
Results of percolation test (mm/hr)	10 min / 25 mm 150	Permissible application rate (ex SABS 0400)	80		
Geological description of the area	SANDSTONE				
Rate of evapotranspiration (/m²/day)	2,15				
Slope of the ground	10°	Shape of the ground (refer table A2)	Planar	Soil depth	1m++
Terrain concentration factor (table A2)	1,1	Deep infiltration factor (table A3)	0,86		
Calculated area required for evapotranspiration (m²)				360	
Actual available area for evapotranspiration(m²)				390	