


Client:	KTHMET SA	CTL Project No.:	380960
Project:	Chemical Analysis	CTL Proj. Mgr.:	Terry Jore
Contact:	George Georgiades	Analyst:	C. Hernández
Submitter:	George Georgiades	Approved:	
Date Received:	February 6, 2007	Date Analyzed:	February 23, 2007
		Date Reported:	February 28, 2007

REPORT OF CHEMICAL ANALYSIS

Client's Sample ID: Diatomite & Clay
 Material type:
 CTL Sample ID: 1778701

<u>Analyte</u>	<u>Weight %</u>
SiO ₂	69.49
Al ₂ O ₃	13.12
Fe ₂ O ₃	4.88
CaO	1.03
MgO	1.52
SO ₃	0.10
Na ₂ O	0.68
K ₂ O	1.85
TiO ₂	0.63
P ₂ O ₅	0.15
Mn ₂ O ₃	0.23
SrO	<0.01
Cr ₂ O ₃	0.02
ZnO	0.03
<u>L.O.I. (950° C)²</u>	<u>5.59</u>
<u>Total</u>	<u>99.33</u>

Alkalies as Na₂O 1.90

Thermogravimetric Analysis - (As Received Basis)

Free moisture (Ambient-105° C) 1.17
 L.O.I. (105° C - 750° C) 5.16
 L.O.I. (750° C - 950° C) 0.36

Calculations per ASTM C 618-03

SiO₂+Al₂O₃+Fe₂O₃ 87.5
 L.O.I. 750° C (dry 105° C basis) 5.22

- Notes:
1. This analysis represents specifically the sample submitted.
 2. Results reported on an oven dry (105° C) basis.
 3. Oxide analysis by X-ray fluorescence spectrometry. Samples fused at 1000° C with Li₂B₄O₇/LiBO₂.
 4. Elemental sulfur and sulfide sulfur may be lost during high temperature ignition and fusion.
 5. This report may not be reproduced except in its entirety.