PACMINEX PTY LIMITED

SAMPLING OF MATERIAL FROM
WATER BORES AND AUGER HOLES

DARWIN 1:250,000 SHEET

D.J. CLAPPISON

DARWIN

JULY 1977
1. **INTRODUCTION**

Open file drill logs of water bores and auger holes were examined to ascertain the extent of laterite development over those portions of the Darwin 1:250,000 Sheet area in which Lower Cretaceous sediments of the Mullaman Beds were reported as the underlying rocks.

This study was undertaken to investigate the possibility that aluminous laterite might be capped by ferruginous laterite and might not be readily recognisable because of an absence of bauxitic pisolite development.

Sections of several holes in which lateritic profiles were reported were selected for examination and sampling to determine whether aluminous essentially non-pisolitic laterite (i.e. tubular) was present in these profiles.

At the time of drill log review and sampling precise hole locations were not available. Drill hole location plans were later prepared and made available by the Mines Branch.

2. **SAMPLING AND ASSAYING**

A total of seventy nine 5-10 grm samples were taken from the Mines Branch reference material of the selected lateritic sections.

These samples will be forwarded to Robertson Research in Bowral, N.S.W. for analysis for \( \text{Al}_2\text{O}_3 \), \( \text{SiO}_2 \), and \( \text{Fe}_2\text{O}_3 \).

Copies of results will be forwarded simultaneously to Pacminex Pty Ltd in Sydney and the Northern Territory Mines Branch.

If results indicate \( \text{Al}_2\text{O}_3 \) of possible economic significance additional analyses for available \( \text{Al}_2\text{O}_3 \), Reactive \( \text{SiO}_2 \) and loss on ignition may be requested, in which case similar arrangements for result despatch will apply.
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D.J. CLAPPISON
Certificate of Analysis
(Comprising 3 sheets)

CERTIFICATE No. 4753
PROJECT No. 778/707
YOUR REFERENCE: 0/No. 15475
DATE: 29th July 1977

Samples from:
Area:
Samples of:

X.R.F. ANALYSIS

RESULTS ATTACHED

Pacminox Pty. Limited,
P. O. Box 1221,
Royal Exchange, SYDNEY N.S.W. 2000

DATE SAMPLES RECEIVED: 13.7.77
FOR THE ATTENTION OF Mr. D. S. Clappison

for and on behalf of
ROBERTSON RESEARCH (AUSTRALIA) PTY. LIMITED
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Al₂O₃: 8.20 26.4
Fe₂O₃: 4.86 44.4
CaO: 3.00 12.81

J. Stew, 4-8-77