

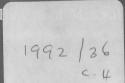


ALKALINE ROCKS OF AUSTRALIA ROCKCHEM DATA SET DOCUMENTATION

RECORD 1992/36



by A.L.Jaques, L.A.I. Wyborn and R.J. Ryburn



Resources, Geology and Geophysics



Alkaline Rocks of Australia Rockchem Data Set Documentation

Record 1992/36

A.L. Jaques, L.A.I. Wyborn and R.J. Ryburn

Minerals and Land Use Program



DEPARTMENT OF PRIMARY INDUSTRIES AND ENERGY

Minister: The Hon. Alan Griffiths

Secretary: G.L. Miller

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

Executive Director: R.W.R. Rutland AO

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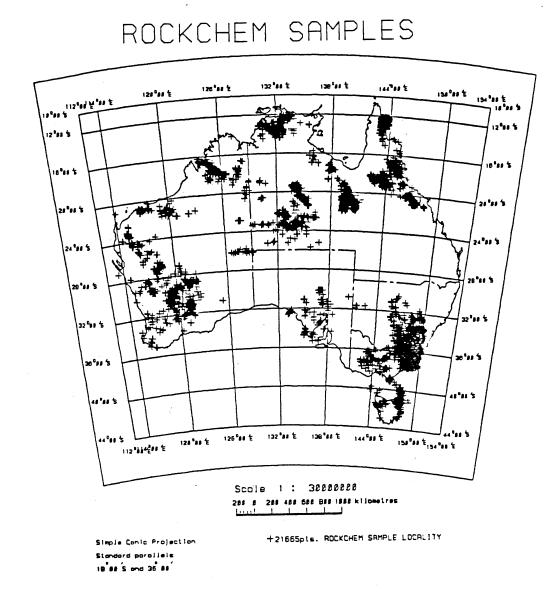
ABSTRACT

ROCKCHEM is the whole rock geochemical data storage system of BMR's Minerals and Land Use Program, and utilises the relational database management system ORACLE. This data set contains 834 analyses (both major and trace elements) of kimberlites and lamproites from the Kimberley Region of Western Australia, as well as data from a review of Alkaline Rocks of Australia. Most of the kimberlite and lamproite samples are located by AMG grid references and/or decimal latitude and longitude. This record describes tables used in ROCKCHEM, defines the fields used within these tables, and gives a short description of the data. Also listed are references to the main scientific reports generated from the data.

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 $\label{lem:figure 1.Distribution of ROCKCHEM samples in Australia. }$

1. INTRODUCTION

ROCKCHEM is the whole-rock geochemical data storage system of the Minerals and Land Use Program of the BMR Geology and Geophysics, Australia. It is based on the commercial relational database management system ORACLE. The complete database contains approximately 21665 analyses from Australia (see Figure 1), Antarctica and Papua New Guinea and can be divided into either regional or thematic data sets. The data are currently subdivided into the data sets as listed in Table 1.

Subset	Areas Covered	No. of Analyses	Coordinator
Regional Databa	ses		
Antarctica	Antarctica	1318	J.W. Sheraton
Arunta	Arunta Block	1793	R.G. Warren,
Lachlan	Lachlan Fold Belt NE Tasmania NW Tasmania	1149 300 40	D. Wyborn
McArthur	McArthur Basin Murphy Tectonic Ridge	533 74	K. Plumb, L. Wyborn
Mount Isa	Mount Isa Inlier	2296	L. Wyborn
New Guinea	New Guinea Manus Island New Georgia	1000	R.W. Johnson
NE Queensland	Georgetown Inlier NE Queensland	1940	D.E. Mackenzie
Pilbara	Pilbara Block	1386	A.Y. Glikson
Pine Creek	Pine Creek Inlier	2056	L. Wyborn
South Australian Proterozoic	Stuart Shelf, Adelaide Geosyncline	232	J. Knutson
Tennant Creek	Tennant Creek Inlier Davenport Province	1431 170	L. Wyborn
West Australian Proterozoic	Capricorn Province Granites Tanami Block Halls Creek Block	227 56 164	L. Wyborn
Yilgarn	Yilgarn Block	2274	J.W. Sheraton
Thematic Databa	ises	•	
Alkaline	Kimberlites Alkaline Rocks	557 277	A.L. Jaques

Table 1. List of Data Sets in ROCKCHEM.

2. THE ALKALINE ROCKS OF AUSTRALIA DATA SET

This ROCKCHEM data set is a release of approximately 834 analyses (both major and trace elements) of kimberlites and lamproites from the Kimberley Region of Western Australia, as well as data from a review of Alkaline Rocks of Australia. Figure 2 shows the distribution of the analyses within the region. Appendix 1 contains listings of the individual components of the data set.

ALKALINE ROCKS OF AUSTRALIA

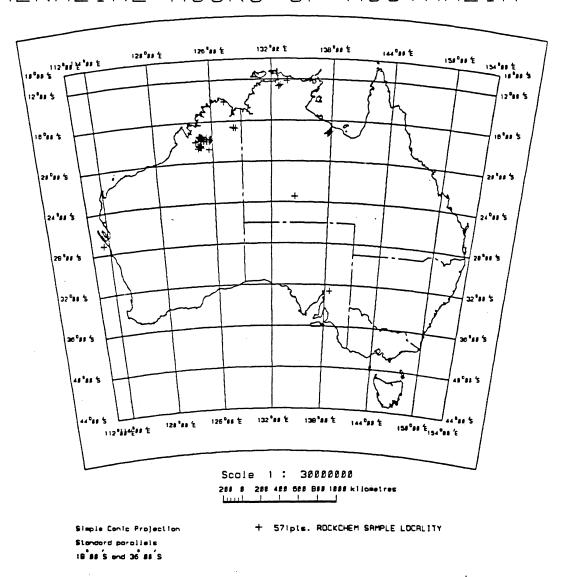


Figure 2. Sample localities for the Alkaline Rocks of Australia Data Set.

Alkaline rocks of Australia Database.

Database type:

thematic

General Selection Criteria:

See individual data groups.

Data description:

This database comprises 834 analyses of alkaline rocks in Australia obtained from unpublished BMR data and from two data groups previously published in microfiche form.

Group 1 contains 557 analyses of kimberlites and lamproites from Western
Australia and features data from the diamond-bearing lamproites of Argyle and
the West Kimberley region, including both the Ellendale pipes and the better
known lamproites of the Noonkanbah field (Fitzroy Lamproites). This group
includes previously unpublished BMR analyses as well as 496 analyses
published as a microfiche Appendix to GSWA Bulletin 132 (Jaques & others,
1986).

Specific Selection Criteria:

Field = group Entry = Fitzroy Lamproites (524 analyses)

Entry = Argyle Lamproite (33 analyses)

• Group 2 is a compilation of 277 previously published analyses from the literature of alkaline rocks of all ages from Australia, published as a microfiche Appendix to a review of the alkaline rocks of Australia by Jaques & others (1985). Many of these samples do not have geographical coordinates as they were not listed in the literature from which they were compiled.

Specific Selection Criteria:

Field = other data *Entry* = Alkaline rocks review.

Future work:

No further expansion of this database is planned under the current program.

Bibliography:

Jaques, A.L., Creaser, R.A., Ferguson, J., and Smith, C.B. 1985. A review of the alkaline rocks of Australia. *Transactions of the Geological Society of South Africa*, 88, 311-334.

Jaques, A.L., Lewis, J.D., and Smith, C.B. 1986. The kimberlites and lamproites of Western Australia. *Geological Survey of Western Australia, Bulletin*, 132, 268pp.

3. STRUCTURE OF ROCKCHEM DATA SETS

The Rockchem database contains seven main tables of data and eleven associated 'authority' tables. The names of the tables are as follows and full definitions are listed in Appendix 2.

Table Name

Contents

Main Tables

SAMPLES
Samples and their locations and provenance
SAMPLESPLITS
Sample splits and their storage
MAJORS
Major element analyses in weight percentages of oxides
TRACES
Trace element analyses in parts per million
PPB
Trace element analyses in parts per billion
ROCKPROPS
Density and magnetic rock properties
REFERENCES
Bibliographic references

Authority tables

ORIGINATORS List of valid contributors COUNTRIES List of valid countries **STATES** List of valid Australian States **REGIONS** List of valid regions List of valid 1:100 000 maps **HMAPS** ROCKTYPES List of valid rock types STOREBOXES List of valid boxes in BMR Museum SOURCES List of valid analytical laboratories **METHODS** List of valid analytical methods MAXNOS Table for highest index number in the database

The fields in the main tables are described in section 4. The authority tables are described in section 5. They generally consist of a number and a text field. For example, the REGIONS table consists of a region number and a region name (see Appendix 2). The region names in this table are unique. Each region appears once, and only once, in this table, and nowhere else in the database. The SAMPLES table refers ('relates') to the region name via its associated number.

4. DESCRIPTION OF THE MAIN TABLES

4.1 THE SAMPLES TABLE

This table contains information about samples and their provenance. The Samples Block contains the following relational fields - ORIGINATORS, ROCKTYPES, COUNTRIES, STATES, REGIONS, HMAPS, and REFERENCES (up to 5 different references can be entered for each sample). With each authority field, there is an associated table containing the value pointed to by a number or in the case of COUNTRIES, a 3-letter mnemonic. The number (or mnemonic) is the only information stored in the SAMPLES table, the values are stored separately in the relevant authority table.

All fields are either mandatory or optional. All BMR users must enter the mandatory fields before the geochemical data can be entered.

- Origno Mandatory relational field of 5 digits. The originator is represented by a number and the full name is recorded in the relational 'ORIGINATORS' table. The originator is generally the person or organization that collects the sample and/or submits it for laboratory work. The main purpose of this field is to ensure a unique combination of originator and sample number.
- Sample Number Mandatory field of 16 characters. Any combination of letters and numbers may be entered, provided that it is unique to the originator. All BMR samples should have registered 8 digit numbers, which should be unique. The first two digits in the BMR sample number refer to the year in which the sample was collected, the next two digits refer to a region in Australia (e.g. Arunta, Pine Creek), and the remaining four numbers are used by individuals belonging to that project at their discretion.
- **Field Number** Optional field of 16 characters. This field is designed to accommodate any alternative numbering systems that might apply to a sample or group of samples. For example, some samples are given field numbers that differ from the final registered numbers.
- *Group or Batholith* Optional field of 64 characters, giving the name of the stratigraphic group or igneous batholith from which the sample was collected.
- Subgroup or Suite Optional field of 64 characters, giving the name of the stratigraphic subgroup or igneous suite pertaining to the sample.
- **Stratigraphic Formation** Optional field of 64 characters, giving the relevant stratigraphic unit at formation level.
- Stratigraphic Member Optional field of 64 characters for the name of a stratigraphic member, if appropriate.
- Stratigraphic Height Optional number field with up to two decimal places. Designed for samples from measured stratigraphic sections.
- **Map Symbol** Optional field of 10 characters: the letter symbol used on 1:100 000 or 1:250 000 geological maps for the rock unit from which the sample was collected.
- **Rock Type** Mandatory relational field of 5 digits. See the description of the authority tables for the list of 18 permissible rock types, 1 being 'unknown'.
- Lithology Optional field of 64 characters for a full lithological description.
- *Grouping* Optional field of 22 characters to allow the user to supply other divisions for samples, for example, the alteration zones of an ore body.

- Age Optional field of 64 characters for the geological age, e.g., late Ordovician. If known, the absolute age is included in brackets, e.g., early Proterozoic (1860 Ma).
- **References** 5 optional relational numeric fields of 5 digits each. The full reference is listed in the REFERENCES table.
- Country Mandatory relational field of 3 capital letters. The default value is 'AUS'.
- **State** Relational field of 3 capital letters, mandatory if country is Australia. Only the standard capital letter abbreviations for Australian states can be entered in this field, and it cannot be used for other countries.
- **Region** Mandatory relational field of 5 digits. Only those regions in the REGIONS table may be entered. A region is a recognised geological province or area such as the Lachlan Fold Belt, Mount Isa Inlier, or Carnarvon Basin. As regions may overlap one another, the region that is entered is dependent on the purpose for which the sample was collected.
- Geographic Area Optional 64 character field for the name of the geographic area (e.g., valley, plain, mountain range) from which the sample comes. Examples are 'Newcastle Range' and 'Tuggeranong Valley'. Another purpose for which this field is used is for subprovinces of major regions (e.g., the Leichhardt River Fault Trough of the Mount Isa Inlier).
- Locality Optional 64 character field for a description of the sample site to aid in its relocation in the field. For example, '5.5km NW of Brown's Bore, on east bank of dry creek'.
- 1:100 000 Map Relational field of 4 digits, mandatory if country is Australia. The number supplied must identify one of the standard series 1:100 000 maps in the HMAPS table. In insert or update mode, the name may be entered and the number retrieved automatically. Only the map number is stored in the SAMPLES table.
- Grid Reference Field of 6 digits, mandatory if 1:100 000 map name is given. The 6 digit reference required is that described on the face of Australian 1:100 000 maps. The grid reference given must be metric and on the Australian National Spheroid.
- **Decimal Latitude** Field of 8 digits, mandatory if sample is not from Australia. Up to 6 digits may follow the decimal point. For most samples this field has been entered using a BMR program called 'GetLat', which calculates latitudes and longitudes from the 1:100 000 maps and metric grid references.
- North or South Single character field, 'S' by default. Only 'N' or 'S' may be entered.
- **Decimal Longitude** Field of 9 digits, 7 of which may follow the decimal point. Otherwise as for latitude.
- East or West Single character field 'E' by default. Only 'E' or 'W' may be entered. Make sure this field is correctly filled in for samples from outside Australia (e.g.

- Antarctica). It must be given as 'W' for latitudes measured west of the Greenwich Meridian.
- **Drill Hole** Optional field of 22 characters. If the sample is from a drill hole, its name, or some other identification, is required.
- Depth in Metres Optional field of 10 characters. The depth of the sample from within the drill hole. A character field is used here to enable depth ranges to be entered, e.g., '112-115' as some samples are collected from finite depth intervals.
- Other Data Optional field of 64 characters. May be used for any data not covered by the above fields that the originator feels are relevant.
- Entry Date Invisible date field. This field automatically assumes the date that the sample data is inserted into the SAMPLES table via the form.

4.2 THE SAMPLE SPLITS TABLE

This table indicates the sample type (whole rock geochemistry, geochronology, thin section, hand specimen etc.) and the number of the box that the sample is stored in within the BMR museum.

- Origno Mandatory relational field of 5 digits. The originator is represented by a number and the full name is recorded in the relational 'Originator Table'. The originator is generally the person or organization that collects the sample and/or submits it for laboratory work. The main purpose of this field is to ensure a unique combination of originator and sample number.
- Sample Number Mandatory field of 16 characters. Any combination of letters and numbers may be entered, provided that it is unique to the originator. All BMR samples should have registered 8 digit numbers, which should be unique. The first two digits in the BMR sample number refer to the year in which the sample was collected, the next two digits refer to a region in Australia (e.g. Arunta, Pine Creek), and the remaining four numbers are used by individuals belonging to that project at their discretion.
- Sample Type Mandatory relational field of 5 digits. The sample type entered must be one of those in the SAMPLETYPES table, e.g., 'whole-rock analysis' or 'geochronology'.
- Storebox Optional numeric field of up to 5 digits. This number must correspond to a Storebox number already in the STOREBOXES table. Although most existing samples do not yet have a storebox number, it is a requirement for all new samples housed in the BMR museum to have a storebox number.

4.3 THE MAJORS TABLE

The majors table contains all of the major element data with all values expressed as weight percentages of oxides.

- Sample Number Mandatory field of 16 characters. Any combination of letters and numbers may be entered, provided that it is unique to the originator. All BMR samples should have registered 8 digit numbers, which should be unique. The first two digits in the BMR sample number refer to the year in which the sample was collected, the next two digits refer to a region in Australia (e.g. Arunta, Pine Creek), and the remaining four numbers are used by individuals belonging to that project at their discretion.
- Analysis Number Mandatory field of up to 5 digits. Primary key field assigned by the system; it cannot be inserted or updated. It may be used to query the tables.
- Origno Mandatory relational field of 5 digits. The originator is represented by a number and the full name is recorded in the relational 'Originator Table'. The originator is generally the person or organization that collects the sample and/or submits it for laboratory work. The main purpose of this field is to ensure a unique combination of originator and sample number.
- Source Number Mandatory relational field of up to 5 digits. The 'source' of an analysis is normally the laboratory that performed the analysis or the person or organization that provided the data (e.g., BMR, BMR restricted, BHP, B.W. Chappell). The SOURCES table contains the authority list of all sources.
- **Method Number** Mandatory relational field of up to 5 digits describing the method by which the laboratory analysis was performed. The details of the analytical techniques used are in the METHODS table.
- Major Elements Optional numeric fields of up to 4 digits, two after the decimal point. Automatically right justified. Detection limit values are entered as negative numbers and it is impossible to enter '<' or 'n.d.'.
- *Fe₂O₃ This field is reserved for total iron as Fe₂O₃. It should be entered only for analyses in which the oxidation state of iron has not been determined. Where this field is entered, the fields for FeO and Fe₂O₃ should be left empty.
- **Rest** Trace elements are converted to oxide percent, summed and then added to the total.
- *Total* Optional numeric field of up to 5 digits. This is for an entered total.
- Calculated Total The value in this field is automatically calculated from the data in the major element fields. It cannot be entered and is not a database field. Except where detection limit values are involved, this field provides a check on the entered total;

the two should coincide. Because detection limit values are entered as negative numbers, they are subtracted from the calculated total.

4.4 THE TRACES TABLE

This table includes all trace elements in ppm.

Description of Fields:

- Sample Number Mandatory field of 16 characters. Any combination of letters and numbers may be entered, provided that it is unique to the originator. All BMR samples should have registered 8 digit numbers, which should be unique. The first two digits in the BMR sample number refer to the year in which the sample was collected, the next two digits refer to a region in Australia (e.g. Arunta, Pine Creek), and the remaining four numbers are used by individuals belonging to that project at their discretion.
- Analysis Number Mandatory field of up to 5 digits. Primary key field assigned by the system; it cannot be inserted or updated. It may be used to query the tables.
- Origno Mandatory relational field of 5 digits. The originator is represented by a number and the full name is recorded in the relational 'Originator Table'. The originator is generally the person or organization that collects the sample and/or submits it for laboratory work. The main purpose of this field is to ensure a unique combination of originator and sample number.
- Source Number Mandatory relational field of up to 5 digits. The 'source' of an analysis is normally the laboratory that performed the analysis or the person or organization that provided the data (e.g., BMR, BMR restricted, BHP, B.W. Chappell). The SOURCES table contains the authority list of all sources.
- **Method Number** Mandatory relational field of up to 5 digits describing the method by which the laboratory analysis was performed. The details of the analytical techniques used are in the METHODS table.
- Trace Elements Optional numeric fields of up to 8 digits, two of which may be after a decimal point. The fields are automatically right justified and as is the case for major elements, a negative entry signifies a detection-limit value.

4.5 THE PPB (parts per billion) TABLE

This table includes all trace elements in ppb.

Description of Fields:

Sample Number - Mandatory field of 16 characters. Any combination of letters and numbers may be entered, provided that it is unique to the originator. All BMR samples should have registered 8 digit numbers, which should be unique. The first

- two digits in the BMR sample number refer to the year in which the sample was collected, the next two digits refer to a region in Australia (e.g. Arunta, Pine Creek), and the remaining four numbers are used by individuals belonging to that project at their discretion.
- Analysis Number Mandatory field of up to 5 digits. Primary key field assigned by the system; it cannot be inserted or updated. It may be used to query the tables.
- Origno Mandatory relational field of 5 digits. The originator is represented by a number and the full name is recorded in the relational 'Originator Table'. The originator is generally the person or organization that collects the sample and/or submits it for laboratory work. The main purpose of this field is to ensure a unique combination of originator and sample number.
- Source Number Mandatory relational field of up to 5 digits. The 'source' of an analysis is normally the laboratory that performed the analysis or the person or organization that provided the data (e.g., BMR, BMR restricted, BHP, B.W. Chappell). The SOURCES table contains the authority list of all sources.
- **Method Number** Mandatory relational field of up to 5 digits describing the method by which the laboratory analysis was performed. The details of the analytical techniques used are in the METHODS table.
- Trace Elements Optional numeric fields of up to 8 digits, 3 of which may be after a decimal point. The fields are automatically right justified and as is the case for major and trace elements, a negative entry signifies a detection-limit value.

4.6 THE REFERENCES TABLE

The bibliographic References Form accesses the REFERENCES table. The authors and year fields are spanned by a concatenated unique index. This means that no two references can have the same values in the author(s) and year fields.

Description of Fields:

- **Reference Number** Mandatory field of up to 5 digits. A monotonically increasing primary key field assigned by the system. The reference number in the fields in the samples table refer to this field.
- *Other ID* Optional field of up to 16 characters. Any other identifying sequence that the user may care to apply.

Username - Mandatory field of up to 16 characters.

Authors - Mandatory field of up to 128 characters.

Year - Mandatory field of up to 16 characters.

Title - Optional field of up to 240 characters.

Source - Optional field of up to 240 characters - the journal name, volume and page numbers.

5. DESCRIPTION OF AUTHORITY TABLES

5.1 THE 1:100 000 MAPS FORM

The 1:100 000 maps form table has the underlying HMAPS table as an important table in its own right.

- 100K Map Number The unique four digit number for any 1:100 000 map sheet from Australia.
- 1M Map ID The 1:1 000 000 map sheet in which the 1:100 000 sheet lies. This is identified by two capital letters followed by two numbers, e.g., 'SF54'. The two digits are the UTM zone, which is needed to convert metric references to latitude and longitude.
- 250K Map Number Up to 2 digits identifying the 1:250 000 map sheet from the 16 within each 1:1 000 000 map area. The full 1:250 000 map ID is obtained by joining the 1:1 000 000 map ID to this number, e.g., SF54-12, which is the Winton 1:250 000 map sheet, in Queensland. Note that the 1:250 000 map sheets in Tasmania are the theoretical ones, not the shifted ones actually published.
- 100K Map Name Up to 22 upper case characters for the name of the 1:100 000 map sheet identified by the 100K Map Number. There are many offshore sheets which are named 'UNNAMED'.
- 100KMap NW Corner Lat. & Long. The decimal latitude and longitude of the northwest corner of the 1:100 000 map sheet. It is possible, using a single SQL*Plus command, to make use of this field to select a 1:100 000 map name for any given latitude and longitude.
- 100K Map AMG Ref. SW Corner Easting and Northing The metric easting and northing of the southwest corner of the 1:100 000 map sheet. These values are necessary to convert a 6-digit grid reference obtained from a 1:100 000 map to the full Australian Map Grid metres east and metres north.

5.2 COUNTRIES TABLE

This table is for recognised countries. All have an associated ID.

ID	Country
AUS	Australia
PNG	Papua-New Guinea
SI	Solomon Islands
ANT	Antarctica
UK	United Kingdom
SEA	International Waters

5.3 STATES TABLE

This table is for the states of Australia only and all have a set ID.

ID	STATE
???	unknown
ACT	Australian Capital Territory
NSW	New South Wales
NT	Northern Territory
QLD	Queensland
SA	South Australia
TAS	Tasmania
VIC	Victoria
WA	Western Australia

5.4 ORIGINATORS TABLE

This table refers to the collector of the sample in the field. With some BMR authors, it is possible to refer to original sample note books which are stored within BMR so as to obtain more precise location and/or technical descriptions of any samples that are of interest.

The following list gives the key for the entries in this authority table.

ORIGNO	ORIGINATOR
1	unknown
2	Blake, D.H.
3	Branch, C.D.
4	Bultitude, R.J.
5	Gardner, C.
6	Croxford, W.
7	Cruikshank, B.I.
8	Hoatson, D.M.
10	Dallwitz, W.B.
11	Derrick, G.M.
12	Duff, B.
13	Ellis, D.J.
14	England, R.N.
15	Ewers, G.R.

16 17 18 19 20 21 22 23 24 25 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 59 60 61 61 61 61 61 61 61 61 61 61 61 61 61	Warren, R.G. Glikson, A.Y. Tanaka, H. Hill, R.M. Holmes, R.D. Hutton, L.J. Lambert, I. Knutson, J. Jaques, A.L. Chapple, K. Lewis, J.D. Etheridge, M. Mackenzie, D.E. McNaughton, N. Mitchell, J.M. Mock, C.M. Higgins, N.C. Oversby, B.S. Cook, P. Stuart-Smith, P.G. Page, R.W. Plumb, K.A. Valenta, R. Needham, R.S. Santul, J. Sheraton, J.W. Smith, S.E. Tunks, A. Wallace, D.A. Willmott, W.F. Wilson, I.H. Withnall, I.W. Wyborn, D. Wyborn, L.A.I. Bain, J.H.C. Johnson, R.W. Williams, P.R. Miller, A. Bettenay, L. Black, L.P. Pederson, C.P. Ferguson, J. Hegge, M.R. Wilkes, P.G.
51	Wyborn, L.A.I. Bain, J.H.C.
53	Williams, P.R.
55	Bettenay, L.
57	Pederson, C.P.
	Hegge, M.R.
61 62	Roberts, W.M.B. Walpole, B.
63 64	Joplin, G. Crick, I.
65	Hills, J.
66 67	Rhodes, J. Smart, P.
68 69	Sweet, I.P Shaw, R.D.
70	Stewart, A.J.
71 72	Wyche, S. Watchman, A.
73	Stuart, J.E.
74 75	Stratton, J. Duggan, M.B.
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                Yeates, A.N.
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                ANU RSES
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                Allen, A.R.
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                Bofinger, V.M.
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                Gee, R.D.
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               De Laeter, J.R.
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                Cooper, J.A.
 83
                Williams, S.J.
 84
                Windrim, D.P.
 85
               Gray, C.M.
 86
               Ludwig, K.R.
 87
                Currie, K.L.
 88
                Chin, R.J.
 89
               Mortimer, G.E.
 90
               Marjoribanks, R.W.
 91
                Webb, A.W.
 92
               Langworthy, A.P.
 93
               SADME
 94
               Jagodzinski, E.A.
 95
                Compston, W.
 96
               Freeman, M.J.
 97
               Offe, L.A.
 98
               Bagas, L.
 99
               Joklik, G.F.
100
               Korsch, R.
101
               Dobos, S.K.
102
               Foden, J.D.
103
               Roarty, M.J.
104
               Pidgeon, R.T.
105
                W.A. Geological Survey
106
               Southgate, P.N.
107
               Kralik, M.
108
               Richards, J.R.
               McDougall, I.
109
110
               Turek, A.
111
               Collins, W.J.
112
               Kinny, P.D.
113
               Heinrich, C.A.
114
               Hill, R.I.
115
               Henderson, G.A.M.
116
               Johnston, C.
117
               Richards, D.
118
               Bailey, J.
119
               Blewett, R.S.
120
               Chappell, B.W.C.
121
               Adams, C.J.
122
               Turner, N.J.
123
               Perason, P.J.
124
               Rao, C.P.
125
               McCulloch, M.T.
126
               Vanderhor, F.
127
               Rattenbury, M.S.
128
               Young, D.N.
129
               Arriens, P.A.
130
               Grew, E.S.
131
               Shibata, K.
132
               Barton, J.M.
133
               Sandiford, M.
134
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Edgoose, C.

O'Beirne, W.
Wakelin-King, G.
Cassidy, K.F.
Ogasawara, M.
Fletcher, I.R.
Perring, C.S.
Compston, D.M.
Maas, R.
CSIRO-Yilgarn data
Netherway, N.M.
Price, R.
Giles, C.W.
Tyler, I. M.
Griffin, T. J.
Ojala, J.
Taylor, W.R.
Connors, K.A.
Hancock, S.L.
Pieters, P.E.
Creaser, R.A.
Whalen, J.B.
Hamlyn, P.R.
Hine, R.
Mason, D.R.
Kjolle, I.
Lanyon, R.
Trail, D.S.
Johnson, J.P.
Knight, J.
Gunther, M.
Rienks, I.P.
Champion, D.
Zhao, JX.

5.5 REGIONS TABLE

The following list of regions was initially compiled from all the existing databases. However, for the purpose of database management, only a select number of major regions are now used for the Australian section of this data set. Those that have been used with the regional databases are marked * in the list below. Most of those Australian regions listed below are now entered in the field "Geogarea"; Antarctic regions used are marked +

REGIONO	REGION
1	unknown
2	Adelaide Fold Belt
3	Albany-Fraser Province
4	Arunta Block *
5	Bunger Hills +
6	Cape York Peninsula
7	Carnarvon Basin
8	Commonwealth Bay +
9	Cummins Range
10	Davenport Province *
11	Denman Glacier +
12	East Kimberley

```
13
              Enderby Land +
14
              Gawler Craton
              George V Land +
15
16
              Georgetown Inlier
17
              Halls Creek Inlier *
              Kemp Land +
18
19
              Lachlan Fold Belt *
20
              Lawn Hill Platform
21
              Mawson Coast +
22
              McArthur Basin *
23
              Mount Isa Inlier *
24
              Northern Prince Charles Mountains +
25
              NE Queensland *
26
              NE Tasmania
27
              NW Tasmania
29
              North Victoria Land +
30
              North Kimberley
31
              Pilbara Block *
              Pine Creek Inlier *
32
33
              Prydz Bay Coast +
34
              Southern Prince Charles Mountains +
35
              Stuart Shelf *
36
              Granites-Tanami Block *
37
              Tasman Fold Belt
38
              Tasmania
39
              Tennant Creek *
40
              Turee Creek
41
              Tuross
42
              Vestfold Hills +
43
              West Kimberley
44
              Wilhelm II Land +
45
              Wilkes Land +
46
              Willyama Block
47
              Yilgarn Block *
48
              Hamersley Basin
49
              SE Tasmania
50
              SW Tasmania
51
              New Georgia Island
52
              Eastern Goldfields
53
              Capricorn Orogen *
              Ashburton Trough
54
55
              Gascoyne Province
56
              Glengarry Sub-basin
57
              Earaheedy Sub-basin
58
              Murphy Tectonic Ridge *
59
              South Nicholson Basin
60
              Westmoreland Region
61
              New England Fold Belt
62
              Sydney Basin
              Admiralty Islands
63
64
              Birrindudu Basin
65
              Bangemall Basin
66
              Musgrave Block
67
              Paterson Province
68
              Amadeus Basin
69
              Ammaroodinna Inlier
70
              Peake Denison Inlier
72
              Georgina Basin
73
              Curnamona Inlier
```

74	Carpentaria Province
75	Northampton Block
76	Houghton Inlier
77	Bougainville
78	Tabar-Feni
79	New Britain
80	St. Andrews Strait
81	Fly Highlands
82	Manus Basin
83	Eastern Papua
84	Officer Basin
85	Woodlark Basin
86	Princess Elizabeth Land
87	MacRoberston Land
88	Dronning Maud Land
89	Rabaul
90	North Coast New Guinea
91	Perth Basin
92	Arnhem Block
93	Mullingarra Block
94	Leeuwin Block
95	South Victoria Land

5.6 ROCK TYPES TABLE

This table provides a coarse subdivision of samples based on broad rocktypes. It was initiated primarily for database management and block retrieval, and for future online extraction of data. This table can be used, for example, to extract all mafic extrusive rocks from the database or all alkaline rocks. The following gives a list of the 18 permitted rock types:

ROCKNO	ROCKTYPE
1	unknown
2	felsic intrusive
3	intermediate intrusive
4	mafic intrusive
5	felsic extrusive
6	intermediate extrusive
7	mafic extrusive
8	ultramafite
9	alkaline igneous
10	clastic sediment
11	chemical sediment
12	metabasite
13	felsic gneiss
14	metasediment
15	metasomatite
16	ore
17	regolith
18	mixed clastic/chemical sediment

5.7 SAMPLE TYPES TABLE

This table gives an indication of the nature of work that has been carried out on each individual sample.

SAMPLETYPENO	SAMPLETYPE
1	unknown
2	whole-rock geochemistry
3	geochronology
4	hand specimen
5	thin section
6	geochronology K-Ar
7	geochronology Ar-Ar
8	geochronology Rb-Sr
9	geochronology Sm-Nd
10	geochronology U-Pb minerals
11	geochronology U-Pb SHRIMP
12	geochronology Pb-Pb
13	geochronology Pb-Pb ores
14	geochronology Lu-Hf
15	geochronology Re-Os
16	geochronology fission-track
17	geophysical properties
18	geochemical rock chip samples

5.8 SOURCES TABLE

This table gives the laboratory or organisation which analysed the sample.

SOURCENO	COLIDOE
SOURCENO	SOURCE
1	unknown
3	ANU
4	Adelaide University
5	AMDEL
6	BMR
7	BMR restricted
8	CSIRO/BMR
9	Macquarie University
10	Melbourne University
11	NTGS (AMDEL)
12	Western Australian Government Chemical Laboratories
13	University of Western Australia
14	University of Queensland
15	James Cook University of North Queensland
16	Tasmanian Department of Mines
17	University of Tasmania
18	Queensland Department of Mines
19	BGR (Bundesanstalt fur Geowissenschaften und Rohstoffe)
20	Labtech Pty. Ltd., WAIT, WA Govt. Chem. Lab., Perth.
21	Institute for Petrology, Copenhagen University, Denmark.
23	ANALABS
24	BMR/CRAE-T.Stachel
25	University of Canterbury New Zealand
26	University of California
27	CSIRO Division of Exploration Geoscience, Floreat Park, WA

5.9 METHODS TABLE

This table describes the analytical methods used in deriving the analyses.

METHODNO	METHOD
1	unknown
2	XRF (Norrish & Hutton, 1969); FeO Vol.; LOI Grav.
3	XRF (Norrish & Hutton, 1969); FeO Vol.; H2O+, H2O-, & CO2 Grav.
4	XRF (Norrish & Chappell, 1977); Ag, Be, Co, Li by AAS
5	XRF (Norrish & Chappell, 1977); Ag, Be, Co, Cu, Li, Ni, Zn by AAS
6	XRF (Norrish & Hutton, 1969); FeO, H2O(total), CO2 by
Ü	AMDEL
7	XRF (Norrish Chappell 1967); Li Be Cr Co Ni Cu Zn Sn AAS F AMDEL
8	Rb, Sr by XRF (Norrish & Chappell, 1967); Ni, Co, V by AAS
9	XRF (Norrish & Chappell, 1977); FeO vol.; LOI grav.
10	XRF (N & C, 1977); REE Hf Ta Cr Sc Sb Cs INA; Th U Gamma spectrm
11	XRF (N & C, 1977); REE Hf Ta Sb Cs INAA; U delayed neutron
	count
12	XRF (Norrish & Chappell, 1977).
13	XRF (Norrish & Chappell, 1977); Co Cu Ni Pb Zn by emiss.
14	ICP,AES Inductively Coupled Plasma, Atomic Emission
15	XRF (N & C, 1977) at ANU; Na, K by AAS (JCUNQ).
16	XRF(N&C 1977) UQ; REE Th U Pb Hf Ba Cs Sn Mo Nb Y Bi W MS7 RSES.
17	AMDL 'wet' chem. +/- XRF (N & H, 1969)?
18	Tas. Dept. Mines Assay Labs Launceston: "classical methods".
19	J. Klominsky & D.I. Groves: X-ray spectrography.
20	XRF (Norrish & Chappell, 1977); REE,Sc,Hf,Th,U INAA
21	XRF (N & C, 1977); REE ion-exchange/XRF (Robinson & others, 1986)
22	AMACHEM Nickel sulfide assay- neutron activation.
23	XRF (Norrish & Hutton, 1969) on 1:1 purified silica mix
24	AAS
25	ANALABS: fire assay, Pb collection, carbon rod finish (30g samp)
26	ANALABS: fire assay fusion, AAS finish (30g sample)
27	ANALABS: combination of methodno = 25 (Pd & Pt) and 26 (Au)
28	RNAA from Melbourne University
29	ANALABS: fire assay, lead collection; ICP-MS finish
30	Direct-reading optical spectrograph (DROS), BMR.
31	XRF (Norrish & Hutton, 1969), LOI Grav. by University of WA
32	GSWA Government Chemical Laboratories.
33	Isotope dilution mass spectrometry, Sun & Nesbitt (1978)
34	XRF Nesbitt & Stanley (1980); traces
35	XRF (Nesbitt, et al, 1976); traces, by pressed powders
36	XRF (Norrish & Hutton, 1969, Norrish & Chappell, 1977) at ANU; FeO, H2O+, H2O-, CO2 gravimetrically,
37	La-Tb by INAA WA (O'Beirne, 1968) Wet chemistry by University of WA (O'Beirne, 1968)
38	Wet chemistry by University of WA (O'Beirne, 1968) XRF (Mo,Sr,Rb,Pb,As,Zn,Cu,Ni,Cr),
30	AAS (Li),(UWA: O'Beirne, 1968)

APPENDIX 1a. Listings of the components of the Fitzroy Lamproite Data Set.

A1a.1 Samples assigned to Stratigraphic Groups

STRATGROUP	COUNT(*)
Fitzroy Lamproites	524

A1a.2 Samples assigned to Subgroups

SUBGROUP	COUNT(*)
unassigned	524

A1a.3 Samples assigned to Stratigraphic Units

STRATUNIT	COUNT(*)
· · · · · · · · · · · · · · · · · · ·	
unassigned	1
Calwynyardah Field	1
Eastern Lennard Shelf Field	47
Ellendale	4
Ellendale Field	225
Fitzroy Valley Field	24
Fitzroy Valley lamproites	1
Mount Percy	1
Noonkanbah Field	220

A1a.4 Samples assigned to Stratigraphic Members

STRATMEMBER	COUNT(*)
unassigned	1
"P" Hill	12
81-Mile Vent	20
? Mount Abbott	1
Big Spring	5
Big Spring No.1	1
Big Spring No.3	1
Brooking Creek	3
Bruten Hill	3
Camarotoechia Creek	1
Djada Hill	11
Ellendale 38 (Palm Spring)	1
Ellendale No. 41	1
Ellendale No. 4E	1
Ellendale No.11	17
Ellendale No.12	1
Ellendale No.14	1
Ellendale No.15	1
Ellendale No.16	6

Ellendale No.17	2
Ellendale No.17 (Winjana)	1
Ellendale No.18	1
Ellendale No.19	2
Ellendale No.2	4
Ellendale No.21	1
Ellendale No.21a	1
Ellendale No.22	3
Ellendale No.23	4
Ellendale No.24	1
Ellendale No.26	1
Ellendale No.27	3
Ellendale No.31	4
Ellendale No.38 (Palm Springs)	2
Ellendale No.39	1
Ellendale No.4	8
Ellendale No.4 Satellite	9
Ellendale No.41	1
Ellendale No.42	1
Ellendale No.46	1
Ellendale No.4E	28
Ellendale No.4Sat	2
Ellendale No.4W	21
Ellendale No.6	1
Ellendale No.7	10
Ellendale No.7(?)	1
Ellendale No.8	1
Ellendale No.9	13
Ellendale No.9(?)	1
Ellendale No.9E	6
Ellendale No.9W	4
Fishery Hill	14
Hansons Bore	1
Hills Cone	13
Hooper West	6
Howes' Hill	3
Machells Pyramid	13
Mamilu Hill	14
McKinrick Hill	2
Mount Cedric	21
Mount Cedric Satellite	1
Mount Gytha	5
Mount Ibis	7
Mount North	17
Mount Percy	19
Mount Rose	4
Noonkanbah Hill	6
Old Leopold Hill	9
Oscar Plug	14
Prairie Hill	7
Prairie Hill East	9
Rice Hill	9
Spieler's Bore	1
The Sisters	2
The Sisters East	2
The Sisters West	3
Walgidee Hills	81
Water Reserve Pipe	3
Water Reserve Sill	2

White Rocks 9

A1a.5 Samples assigned by Rocktype

ROCKNO	ROCKTYPE	COUNT(*)
1	unknown	1
8	ultramafite	1
9	alkaline igneous	522

A1a.6 Samples assigned by Chronological Age

AGE	COUNT(*)
unassigned	63
Miocene	242
Miocene (17 Ma)	3
Miocene (17.8 Ma)	2
Miocene (18 Ma)	12
Miocene (19 Ma)	3
Miocene (20 Ma)	33
Miocene (21 Ma)	15
Miocene (21.9 Ma)	2
Miocene (22 Ma)	121
Miocene (~23 Ma)	4
Miocene (~24 Ma)	24

A1a.7 Samples assigned by Geographic Area

GEOGAREA	COUNT(*)
unassigned	524

A1a.8 Samples assigned to 1:100 000 Map Sheet Areas

MAPNAME	MAPNO	COUNT(*)
BRUTEN	4060	3
CUNNINGHAM	3961	13
ELLENDALE	3862	196
HARDMAN	3861	188
HOOPER	4062	33
KALYEEDA	3860	16
LENNARD	3863	27
LEOPOLD DOWNS	3962	17
RICHENDA	3963	1
WILLUMBAH	3762	9

A1a.9 Samples assigned to Drillholes

DRILLHOLE	COUNT(*)
unassigned	365
11AC12	1
11AC13	2

11AC15	5
11AC16	4
11AC26	1
2AC 3	1
2AC 8	1
2AC4	1
2AC9	1
4AC104	2
4AC105	2
4AC108	1
4AC11	1
4AC112	2
4AC123	3
4AC129	1
4AC129	1
4AC140	1
4AC140	
4AC147 4AC162	5
4AC185	4
4AC187	1
4AC188	2
4AC189	3
4AC190	
4AC191	2
4AC191	6
4AC202	1 1
4AC202	3
4AC203	
	1
4AC206	1
4AC209 4AC210	1
4AC210	1
4AC214	4
4AC218	2
4AC218	1
4AC228	2
4AC236	2 2
4AC263	
7AC17	2
7AC17 7AC18	3
7AC19	1
9AC 86	1
9AC108	1
9AC110	1
9AC113	1
9AC22	1
9AC29	1
9AC30	1 2
9AC48	
9AC49	1
9AC52	2
9AC60	1 3
9AC63	1
9AC78	1
9AC86	3
E1-S13	1
E2-S14	1
E2-S5	1
E3-S15	1
	•

E4-S16	1
E5-S10	1
LDH2-chips	1
LDH3	1
RAB B0-S14	1
RAB B0-S15A	2
RAB B0-S18	1
RAB B0-S2	1
RAB B0-S3	1
RAB B0-S4	1
RAB B0-S5	1
RAB E1-S2	1
RAB E1-S3	1
RAB E1-S5	1
RAB E2-S6	1
RAB E2-S7	1
RAB E3-E13	1
RAB E3-S19	1
RAB E3-S6	1
RAB E4-S11	1
RAB E4-S12	1
RAB E4-S19	1
RAB E4-S5	1
RAB E4-S7	1
RAB E5-S12	1
RAB E5-S4	1
RAB E6-S10	1
RAB E6-S15	1
RAB E6-S7	1
RAB E7-S10	1
RAB E8-S10	1
RAB E8-S11	1
RAB E9-S11	1
RAB MI100	1
RAB MI101	3
RAB W1-S14	2
RAB W2-S2	1
RAB W2-S3	1
RAB W2-S5	1
Seltrust LDH5	1
Seltrust LH1	1
Unknown	1
W2-S15	1
W3-S14	1
core15	1

APPENDIX 1b. Listings of the components of the Argyle Lamproite Data Set.

A1b.1 Samples assigned to Sti	ratigraphic Groups
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STRATGROUP	COUNT(*)
Argyle Lamproite	33
A1b.2 Samples assigned to Subgroups	
SUBGROUP	COUNT(*)
unassigned	33
A1b.3 Samples assigned to Stratigraphic	Units
STRATUNIT	COUNT(*)
Argyle (AK1) Pipe	33
A1b.4 Samples assigned to Stratigraphic	Members
STRATMEMBER	COUNT(*)
unassigned North Smoke Creek ST. 'Sandy Tuff' South Smoke Creek	29 2 1 1
A1b.5 Samples assigned by Rocktype	
ROCKNO ROCKTYPE	COUNT(*)
9 alkaline igneous	33
A1b.6 Samples assigned by Chronologica	al Age
AGE	COUNT(*)
unassigned middle Proterozoic middle Proterozoic (~1178 Ma)	29 1 3
A1b.7 Samples assigned by Geographic a	area
GEOGAREA	COUNT(*)
unassigned	33

A1b.8 Samples assigned to 1:100 000 Map Sheet Areas

HMAPNAME	MAPNO	COUNT(*)
-BOW	4564	33

A1b.9 Samples assigned to Drillholes

DRILLHOLE	COUNT(*)
unassigned	5
AK1 Pipe	5
DDH 106	2
DDH 108	2
DDH 110	1
DDH 113	1
DDH 123	1
DDH 130	1
DDH 153	2
DDH 160	1
DDH 17	4
DDH 22	2
DDH 31	3
DDH 59	1
DDH 82	1
LDC	1

APPENDIX 1c. Listings of the components of the Alkaline Rocks Review Data Set.

A1c.1 Samples assigned to Stratigraphic Groups

STRATGROUP	COUNT(*)
unassigned	141
Alkaline Igneous Complex	8
Cainozoic Alkali Basalts	9
Fitzroy Lamproites	22
Mesozoic Alkali Syenite Complexes	29
North Kimberley Kimberlites	1
Permian-Mesozoic Alkali Basalt Association	37
Permian-Mesozoic Alkali Basalt Diatreme	6
Association	
Permian-Mesozoic Lamprophyre Association	4
Permian-Mesozoic Shoshonite Association	10
Tawallah Group	10

A1c.2 Samples assigned to Subgroups

SUBGROUP	COUNT(*)
unassigned	191
Alkali Basalt Association	2
Alkali Basalt Diatreme Association	9
Alkali Syenite Complexes	38
Lamprophyre Association	8
Shoshonite Association	29

A1c.3 Samples assigned to Stratigraphic Units

STRATUNIT	COUNT(*)
unassigned	2
Argyle (AK1) Pipe	1
Benambra syenites	14
Black Jack Sill	8
Bobbies Point Alkali Granite	1
Bow Hill Dykes	1
Broken Hill	1
Bruten's Hill	1
Cape Portland Complex	10
Delegate breccia pipe	1
Dubbo syenites	1
Edell No. 1 trachytes	4
Ellendale Field	8
Fitzroy Valley Field	1
Gloucester breccia pipe	2
Gold Creek Volcanics	4
Good Dog Mountain monchiquites	2
Hobblechain Rhyolite	1

Hornsby diatremes	2
Jingera Alkaline Complex	8
Jugiong breccia	8
Kangaroo Valley syenites	5
Kellys Point dolerite	4
Kiama dyke	1
Lake Shaster Monzonite	4
Maningkorrirr Phonolite	2
Milton monzonite	15
Minchinbury diatremes	2
Mittagong syenites	22
Mordor Igneous Complex	12
Mount Dromedary Complex	19
Mount North	5
Mount Rose	1
Mount Woolooma lamprophyre	3
Mudginberri Phonolite	3
Murrumburrah Monchiquite	2
Myalla Road Syenite	9
Nebo Sills	4
Noonkanbah Field	14
Old Leopold Hill	2
Orroroo Kimberlites	9
Oscar Plug	1
Packsaddle Microgranite	1
Port Cygnet Complex	10
Prairie Hill East	1
Prospect Intrusion	10
Redbank Formation	3
Settlement Creek Volcanics	5
Skerring pipe	1
Square Top Intrusion	9
Tanja Alkaline Intrusion	6
Termeil Essexite	2
Wallaya	1
Wandagee Picritic Monchiquites	1
West Coast	3
White Cliffs	1
Wollar - Rylstone syenites	2
lamprophyre dyke	1

A1c.4 Samples assigned to Stratigraphic Members

STRATMEMBER	COUNT(*)
unassigned	252
"P" Hill	2
81-Mile Vent	1
Djada Hill	2
Ellendale No.11	1
Ellendale No.4	1
Ellendale No.7	3
Ellendale No.9	2
Hills Cone	2
Mamilu Hill	4
Mount Cedric	1
Mount Gytha	1
Mount Ibis	1

Mount Percy	1
Oscar Plug	1
Prairie Hill East	1
Walgidee Hills	1

A1c.5 Samples assigned by Rocktypes

_	ROCKNO	ROCKTYPE	COUNT(*)
•			
	1	unknown	7
	2	felsic intrusive	1
	3	intermediate intrusive	1
	4	mafic intrusive	2
	5	felsic extrusive	1
	7	mafic extrusive	1
	8	ultramafite	8
	9	alkaline igneous	256

A1c.6 Samples assigned by Chronological Age

AGE	COUNT(*)
unassigned	46
Eccene	9
Jurassic?	14
Mesozoic	47
Miocene	1
Permian?	4
early Cretaceous (~100 Ma)	19
early Cretaceous (~91 Ma)	10
early Cretaceous (~98 Ma)	10
early Jurassic (194 Ma)	2
early Mesozoic (178 - 187 Ma)	22
early Proterozoic	11
late Cretaceous (85 Ma)	3
late Jurassic (146-155 Ma)	2
late Jurassic (164 Ma)	1
late Mesozoic	1
late Proterozoic	1
late Proterozoic (800 Ma)	1
late Triassic (206 Ma)	1.4
middle Jurassic (163-174 Ma)	9
middle Jurassic (167 Ma)	1
middle Jurassic (168 Ma)	18
middle Jurassic (170-172 Ma)	9
middle Proterozoic	5
middle Proterozoic (1190 Ma)	1
middle Proterozoic (1210 Ma)	12
unknown	4

A1c.7 Samples assigned by Geographic Area

GEOGAREA	COUNT(*)
unassigned	97
Benambra	14

Dubbo	1
Euralia	9
Gunnedah	8
Hornsby	2
Kangaroo Valley - Jamberoo	5
Lake Shaster	4
Minchinbury	2
Mittagong	22
NE Tasmania	10
New England Fold Belt	5
North east NSW	9
Port Cygnet	10
SE NSW coast	30
Southern Highlands	1
Southern Sydney Basin	27
Southern Sydney Basin, Wollongong	4
Wearyan Shelf	11
Wollar - Rylstone	2
central NSW	2
southern Sydney Basin	2

A1c.7 Samples assigned by 1:100 000 Map Sheet Areas

HMAPNAME	MAPNO	COUNT(*)	
BOW	4564	1	
CAHILL	5472	3	
ELLENDALE	3862	1	
GOOMADEER	5673	2	
KING GEORGE	4369	1	
LAUGHLEN	5751	12	
WOLLOGORANG	6463	11	

A1c.8 Samples assigned to Drillholes

DRILLHOLE	COUNT(*)	
unassigned	264	
BMR Cahill No.3	1	
BMR Cahill No.5	1	
DDH 1	2	
DDH 13	1	
DDH 3	2	
DDH RO21	1	
DDH RO30	1	
Edell No. 1	4	

Appendix 2 - Rockchem Database Definitions

A2.1 Samples Table Description:

```
CREATE SPACE DEFINITION SPACE GCSAMPLES
     DATAPAGES
                    ( INITIAL
                                    2000,
                                    500,
                      INCREMENT
                                    9999,
                      MAXEXTENTS
                                    25
                      PCTFREE
                                          )
                    ( INITIAL
     INDEXPAGES
                                    200.
                      INCREMENT
                                    100,
                                    9999
                      MAXEXTENTS
                                         )
     PARTITION C;
CREATE TABLE SAMPLES (
     ORIGNO
                               NUMBER
                                               (5,0)
                                                            NOT NULL,
     SAMPNO
                               CHAR
                                               (16)
                                                            NOT NULL,
     FIELDNO
                               CHAR
                                               (16),
     STRATGROUP
                               CHAR
                                               (64),
     SUBGROUP
                               CHAR
                                               (64),
     STRATUNIT
                               CHAR
                                               (64),
     STRATMEMBER
                               CHAR
                                               (64),
     STRATHEIGHT
                               NUMBER
                                               (8,2),
     MAPSYMBOL
                               CHAR
                                               (10),
     ROCKNO
                               NUMBER
                                               (5,0),
     LITHOLOGY
                               CHAR
                                               (64),
     GROUPING
                               CHAR
                                               (22),
     AGE
                               CHAR
                                               (64),
     REFNO1
                               NUMBER
                                               (5,0),
     REFNO2
                               NUMBER
                                               (5,0),
     REFNO3
                               NUMBER
                                               (5,0),
     REFNO4
                               NUMBER
                                               (5,0),
     REFNO5
                               NUMBER
                                               (5,0),
     COUNTRYID
                               CHAR
                                               (22),
     STATE
                               CHAR
                                               (10),
     REGIONO
                               NUMBER
                                               (5,0),
     GEOGAREA
                               CHAR
                                               (64),
     LOCALITY
                               CHAR
                                               (64),
     MAPNO
                               NUMBER
                                               (5,0),
     AIRPHOTO
                               CHAR
                                               (22),
     GRIDREF
                               CHAR
                                               (10),
     DLAT
                               NUMBER
                                               (8,6),
     NS
                               CHAR
                                               (1),
     DLONG
                               NUMBER
                                               (9,6),
     EW
                               CHAR
                                               (1),
     DRILLHOLE
                               CHAR
                                               (22),
     DEPTH
                               CHAR
                                               (10),
     OTHERDATA
                               CHAR
                                               (64),
     ENTRYDATE
                               DATE
                                                                               )
SPACE SPACE GCSAMPLES;
CREATE UNIQUE INDEX ORIGSAMP ON SAMPLES (ORIGNO, SAMPNO);
CREATE
                INDEX SAMPLENO ON SAMPLES (SAMPNO);
CREATE
                INDEX REGIONS ON SAMPLES (REGIONO);
```

A2.2 Samplesplits Table Description:

```
CREATE SPACE DEFINITION SPACE GCSPLITS
    DATAPAGES
                  ( INITIAL
                                  500,
                    INCREMENT
                                  250,
                    MAXEXTENTS
                                  9999,
                                  25
                    PCTFREE
                                        )
    INDEXPAGES
                  ( INITIAL
                                  150.
                    INCREMENT
                                  100,
                    MAXEXTENTS 9999
    PARTITION C;
CREATE TABLE SAMPLES (
                             NUMBER
                                            (5,0)
                                                        NOT NULL,
    ORIGNO
     SAMPNO
                             CHAR
                                            (16)
                                                        NOT NULL,
                                                        NOT NULL,
    SAMPTYPENO
                             NUMBER
                                            (5,0)
    STOREBOXNO
                             NUMBER
                                            (5,0)
SPACE SPACE_GCSPLITS;
CREATE INDEX SAMPORIG ON SAMPLESPLITS (ORIGNO, SAMPLENO);
CREATE INDEX SPLITYPE ON SAMPLESPLITS ( SAMPTYPENO );
```

A2.3 Majors Table Description:

```
CREATE SPACE DEFINITION SPACE GCMAJORS
     DATAPAGES
                    ( INITIAL
                                    1000,
                      INCREMENT
                                     400,
                      MAXEXTENTS 9999.
                      PCTFREE
                                     10
     INDEXPAGES
                    ( INITIAL
                                     200,
                      INCREMENT
                                     100.
                      MAXEXTENTS 9999 )
     PARTITION C;
CREATE TABLE MAJORS (
     ORIGNO
                               NUMBER
                                               (5,0)
                                                            NOT NULL.
     SAMPNO
                                                            NOT NULL,
                               CHAR
                                               (16)
     ANALNO
                               NUMBER
                                               (5,0)
                                                            NOT NULL,
     SOURCENO
                               NUMBER
                                               (5,0),
     METHODNO
                               NUMBER
                                               (5,0),
     SIO<sub>2</sub>
                               NUMBER
                                               (4,2),
     TIO2
                               NUMBER
                                               (4,2),
     AL203
                               NUMBER
                                               (4,2),
     FE2O3TOT
                                               (4,2),
                               NUMBER
     FE2O3
                               NUMBER
                                               (4,2),
     FEO
                               NUMBER
                                               (4,2),
     MNO
                               NUMBER
                                               (4,2),
     MGO
                               NUMBER
                                               (4,2),
     CAO
                                               (4,2),
                               NUMBER
     NA20
                               NUMBER
                                               (4,2),
     K20
                               NUMBER
                                               (4,2),
     P2O5
                               NUMBER
                                               (4,2),
     H2OPLUS
                               NUMBER
                                               (4,2),
```

```
H2OMIN
                               NUMBER
                                               (4,2),
     CO2
                               NUMBER
                                               (4,2),
     LOI
                               NUMBER
                                                (4,2),
     REST
                               NUMBER
                                                (4,2),
     TOTAL
                               NUMBER
                                                (5,2),
     ENTRYDATE
                               DATE
                                                            )
SPACE SPACE_GCMAJORS;
CREATE UNIQUE INDEX MANALNO ON MAJORS (ANALNO);
               INDEX MORIGSAMP ON MAJORS (ORIGNO, SAMPNO);
CREATE
               INDEX MSAMPLENO ON MAJORS (SAMPNO);
A2.4 Traces Table Description:
CREATE SPACE DEFINITION SPACE_GCTRACES
     DATAPAGES
                    ( INITIAL
                                     1200,
                      INCREMENT
                                     400,
                      MAXEXTENTS
                                     9999,
                      PCTFREE
                                     30
                                          )
     INDEXPAGES
                    ( INITIAL
                                     200,
                      INCREMENT
                                     100,
                      MAXEXTENTS
                                     9999
                                         )
     PARTITION C;
CREATE TABLE TRACES
     ORIGNO
                               NUMBER
                                               (5,0)
                                                            NOT NULL,
     SAMPNO
                               CHAR
                                               (16)
                                                            NOT NULL,
     ANALNO
                               NUMBER
                                               (5,0)
                                                            NOT NULL,
     SOURCENO
                               NUMBER
                                               (5,0),
     METHODNO
                               NUMBER
                                               (5,0),
     AG
                               NUMBER
                                               (8,2),
     AL
                               NUMBER
                                               (8,2),
     ARS
                               NUMBER
                                               (8,2),
     AU
                               NUMBER
                                               (8,2),
     В
                               NUMBER
                                               (8,2),
     BA
                               NUMBER
                                               (8,2),
     BE
                               NUMBER
                                               (8,2),
     BI
                               NUMBER
                                               (8,2),
     BR
                               NUMBER
                                               (8,2),
     С
                               NUMBER
                                               (8,2),
     CA
                               NUMBER
                                               (8,2),
     CD
                               NUMBER
                                               (8,2),
     CE
                               NUMBER
                                               (8,2),
     CL
                               NUMBER
                                               (8,2),
     CO
                               NUMBER
                                               (8,2),
     CR
                               NUMBER
                                               (8,2),
     CS
                               NUMBER
                                               (8,2),
     CU
                               NUMBER
                                               (8,2),
     DY
                               NUMBER
                                               (8,2),
     ER
                               NUMBER
                                               (8,2),
     EU
                               NUMBER
                                               (8,2),
     F
                               NUMBER
                                               (8,2),
     FE
                               NUMBER
                                               (8,2),
     GA
                               NUMBER
```

(8,2),

```
GE
                                                  (8,2),
                                 NUMBER
     GD
                                 NUMBER
                                                  (8,2),
     HF
                                 NUMBER
                                                  (8,2),
     HG
                                 NUMBER
                                                  (8,2),
     HO
                                 NUMBER
                                                  (8,2),
     IR
                                 NUMBER
                                                  (8,2),
     K
                                 NUMBER
                                                  (8,2),
     LA
                                 NUMBER
                                                  (8,2),
     LI
                                 NUMBER
                                                  (8,2),
     LU
                                 NUMBER
                                                  (8,2),
     MG
                                 NUMBER
                                                  (8,2),
     MN
                                 NUMBER
                                                  (8,2),
     MO
                                 NUMBER
                                                  (8,2),
     NA
                                                  (8,2),
                                 NUMBER
     NB
                                 NUMBER
                                                  (8,2),
     ND
                                 NUMBER
                                                  (8,2),
     NI
                                 NUMBER
                                                  (8,2),
     OS
                                 NUMBER
                                                  (8,2),
     P
                                 NUMBER
                                                  (8,2),
     PB
                                 NUMBER
                                                  (8,2),
     PD
                                 NUMBER
                                                  (8,2),
     PR
                                 NUMBER
                                                  (8,2),
     PT
                                 NUMBER
                                                  (8,2),
     RB
                                 NUMBER
                                                  (8,2),
     S
                                 NUMBER
                                                  (8,2),
     SB
                                 NUMBER
                                                  (8,2),
     SE
                                 NUMBER
                                                  (8,2),
     SC
                                 NUMBER
                                                  (8,2),
     SI
                                 NUMBER
                                                  (8,2),
     SM
                                 NUMBER
                                                  (8,2),
     SN
                                 NUMBER
                                                  (8,2),
     SR
                                 NUMBER
                                                  (8,2),
     TA
                                 NUMBER
                                                  (8,2),
     TB
                                 NUMBER
                                                  (8,2),
     TE
                                 NUMBER
                                                  (8,2),
     TI
                                 NUMBER
                                                  (8,2),
     TH
                                 NUMBER
                                                  (8,2),
     TL
                                 NUMBER
                                                  (8,2),
     TM
                                 NUMBER
                                                  (8,2),
     U
                                 NUMBER
                                                  (8,2),
     V
                                 NUMBER
                                                  (8,2),
     W
                                  NUMBER
                                                  (8,2),
     Y
                                 NUMBER
                                                  (8,2),
     YΒ
                                 NUMBER
                                                  (8,2),
     ZN
                                 NUMBER
                                                  (8,2),
      ZR
                                 NUMBER
                                                  (8,2),
     ENTRYDATE
                                 DATE
                                           )
SPACE SPACE_GCTRACES;
CREATE UNIQUE INDEX TANALNO ON TRACES (ANALNO);
                INDEX TORIGSAMP ON TRACES (ORIGNO, SAMPNO);
```

CREATE

CREATE INDEX TSAMPLENO ON TRACES (SAMPNO);

A2.5 ppb Tables Description (elements in parts per billion):

```
CREATE SPACE DEFINITION SPACE GSMALL
     DATAPAGES
                                     50,
                    ( INITIAL
                                     50.
                      INCREMENT
                      MAXEXTENTS
                                     9999.
                                     25
                      PCTFREE
     INDEXPAGES
                                     20,
                    ( INITIAL
                      INCREMENT
                                     12,
                                     9999
                      MAXEXTENTS
                                           )
     PARTITION C;
CREATE TABLE PPB
                     (
                                                              NOT NULL,
     ORIGNO
                                NUMBER
                                                (5,0)
                                                              NOT NULL,
     SAMPNO
                                CHAR
                                                (16)
     ANALNO
                                NUMBER
                                                (5,0)
                                                              NOT NULL,
                                                (5,0),
     SOURCENO
                                NUMBER
     METHODNO
                                NUMBER
                                                (5,0),
                                                (8,3),
     SE
                                NUMBER
     RB
                                NUMBER
                                                (8,3),
     RU
                                NUMBER
                                                (8,3),
     RH
                                NUMBER
                                                (8,3),
     PD
                                NUMBER
                                                (8,3),
     AG
                                NUMBER
                                                (8,3),
     CS
                                NUMBER
                                                (8,3),
                                                (8,3),
     LA
                                NUMBER
                                                (8,3),
     CE
                                NUMBER
     PR
                                NUMBER
                                                (8,3),
     ND
                                NUMBER
                                                (8,3),
                                                 (8,3),
     PM
                                NUMBER
                                NUMBER
                                                (8,3),
     SM
     EU
                                NUMBER
                                                 (8,3),
     GD
                                NUMBER
                                                 (8,3),
                                NUMBER
     TB
                                                 (8,3),
                                NUMBER
                                                 (8,3),
     DY
     HO
                                NUMBER
                                                 (8,3),
     ER
                                NUMBER
                                                 (8,3),
     TM
                                NUMBER
                                                 (8,3),
     YB
                                NUMBER
                                                 (8,3),
     LU
                                NUMBER
                                                 (8,3),
     RE
                                NUMBER
                                                 (8,3),
     OS
                                NUMBER
                                                 (8,3),
     \mathbb{R}
                                NUMBER
                                                 (8,3),
     PT
                                NUMBER
                                                 (8,3),
                                NUMBER
     ΑU
                                                 (8,3),
     ENTRYDATE
                                DATE
                                                              )
CREATE UNIQUE INDEX PPBANALNO
                                      ON PPB
                                               (ANALNO);
                                               (ORIGNO, SAMPNO);
CREATE
                INDEX PPBORIGSAMP
                                      ON PPB
CREATE
                INDEX PPBSAMPLENO ON PPB
                                               (SAMPNO);
```

A2.6 Rocktypes Table Description:

CREATE SPACE DEFINITION SPACE_GSMALL DATAPAGES (INITIAL 50, INCREMENT 50,

```
MAXEXTENTS 9999,
                    PCTFREE
                                  25
                                       )
    INDEXPAGES
                  ( INITIAL
                                  20,
                    INCREMENT
                                  12,
                    MAXEXTENTS 9999 )
    PARTITION C;
CREATE TABLE ROCKTYPES
                                            (5,0)
                                                        NOT NULL,
    ROCKNO
                             NUMBER
    ROCKTYPE
                             CHAR
                                            (64)
                                                        NOT NULL
SPACE SPACE GCSMALL
A2.7 References Table Description:
CREATE SPACE DEFINITION SPACE GSMALL
    DATAPAGES
                  ( INITIAL
                    INCREMENT
                                  50,
                    MAXEXTENTS
                                  9999.
                    PCTFREE
                                  25
    INDEXPAGES
                  ( INITIAL
                                  20,
                    INCREMENT
                                  12,
                    MAXEXTENTS
                                  9999
    PARTITION C;
CREATE TABLE REFERENCES(
    REFNO
                             NUMBER
                                            (5,0)
                                                        NOT NULL,
     OTHERID
                             CHAR
                                            (16)
     USERNAME
                             CHAR
                                            (16)
     AUTHORS
                             CHAR
                                            (128)
     YEAR
                             CHAR
                                            (16)
     TITLE
                             CHAR
                                            (240)
     SOURCE
                             CHAR
                                            (240)
                                                        )
SPACE SPACE_GCSMALL;
CREATE UNIQUE INDEX REFNUMBER ON REFERENCES ( REFNO );
CREATE UNIQUE INDEX REFUNIQUE ON REFERENCES
                                                  ( AUTHORS, YEAR );
A2.8 Originators Table Description:
CREATE SPACE DEFINITION SPACE GSMALL
     DATAPAGES
                  ( INITIAL
                                  50,
                    INCREMENT
                                  50.
                                  9999,
                    MAXEXTENTS
                    PCTFREE
                                  25
                   ( INITIAL
     INDEXPAGES
                                  20,
                    INCREMENT
                                  12,
                    MAXEXTENTS
                                  9999
     PARTITION C;
CREATE TABLE ORIGINATORS (
     ORIGNO
                             NUMBER
                                            (5,0)
                                                        NOT NULL,
                                                        NOT NULL )
     ORIGINATOR
                             CHAR
                                            (22)
SPACE SPACE_GCSMALL;
CREATE UNIQUE INDEX ORIGNOS ON ORIGINATORS (ORIGNO);
```

CREATE UNIQUE INDEX ORIGINS ON ORIGINATORS (ORIGNATOR);

A2.9 Regions Table Description:

```
CREATE SPACE DEFINITION SPACE_GSMALL
    DATAPAGES
                  ( INITIAL
                    INCREMENT
                                  50,
                                 9999,
                    MAXEXTENTS
                    PCTFREE
                                 25
                                       )
                  ( INITIAL
                                  20,
    INDEXPAGES
                    INCREMENT
                                  12,
                    MAXEXTENTS 9999 )
    PARTITION C;
CREATE TABLE REGIONS (
                             NUMBER
                                           (5,0)
                                                       NOT NULL,
    REGIONO
                                                       NOT NULL )
                             CHAR
    REGION
                                           (64)
SPACE SPACE_GCSMALL;
CREATE UNIQUE INDEX REGIONO
                               ON REGIONS (REGIONO);
CREATE UNIQUE INDEX REGIONAME ON REGIONS (REGION);
A2.10 HMAPS Table Description:
CREATE SPACE DEFINTION HMAPS
    DATAPAGES
                  ( INITIAL
                                  50
                    INCREMENT
                                  10
                                 9999,
                    MAXEXTENTS
                    PCTFREE
                                  10
                                       )
    INDEXPAGES
                  ( INITIAL
                                  20
                    INCREMENT
                                  10
                    MAXEXTENTS
                                  9999 )
    PARTITION C;
CREATE TABLE HMAPS (
    HMAPNO
                             NUMBER
                                           (4,0)
    HMAPID
                             CHAR
                                           (4)
     OMAPNO
                             NUMBER
                                           (2,0)
    N LAT
                             NUMBER
                                           (3,1)
     W LONG
                             NUMBER
                                           (4,1)
    MEAST
                             NUMBER
                                           (6)
    MNORTH
                             NUMBER
                                           (7)
SPACE SP_LOCAL
CREATE UNIQUE INDEX HMAPNO
                               ON HMAPS (HMAPNO);
CREATE
              INDEX HMAPNAME ON HMAPS (HMAPNAME);
CREATE
              INDEX NLAT
                               ON HMAPS ( N_LAT );
CREATE
              INDEX WLONG
                               ON HMAPS ( W_LONG );
A2.11 Sampletypes Table Description:
CREATE SPACE DEFINITION SPACE GSMALL
                  ( INITIAL
     DATAPAGES
                    INCREMENT
                                  50,
                    MAXEXTENTS
                                  9999,
                    PCTFREE
                                  25
                                       )
     INDEXPAGES
                  ( INITIAL
                                  20,
```

9999)

INCREMENT MAXEXTENTS

```
PARTITION C;
CREATE TABLE SAMPLETYPES (
                                           (5,0)
                                                       NOT NULL,
    SAMPLETYPENO
                             NUMBER
                                                       NOT NULL )
    SAMPLETYPE
                             CHAR
                                           (64)
SPACE SPACE GCSMALL;
A2.12 Sources Table Description:
CREATE SPACE DEFINITION SPACE GSMALL
    DATAPAGES
                  ( INITIAL
                    INCREMENT
                                  50.
                    MAXEXTENTS
                                 9999,
                                  25
                    PCTFREE
                                       )
    INDEXPAGES
                  ( INITIAL
                                  20,
                    INCREMENT
                                  12,
                    MAXEXTENTS 9999 )
    PARTITION C;
CREATE TABLE SOURCES (
    SOURCENO
                             NUMBER
                                           (5,0)
                                                       NOT NULL,
                                                       NOT NULL )
    SOURCE
                             CHAR
                                           (64)
SPACE SPACE_GCSMALL;
CREATE UNIQUE INDEX SOURCENOS ON SOURCES (SOURCENO);
CREATE UNIQUE INDEX SOURCES ON SOURCE (SOURCE);
A2.13 Methods Table Description:
CREATE SPACE DEFINITION SPACE GSMALL
     DATAPAGES
                  ( INITIAL
                    INCREMENT
                                  50,
                    MAXEXTENTS
                                  9999.
                    PCTFREE
                                  25
                  ( INITIAL
    INDEXPAGES
                                  20,
                    INCREMENT
                                  12,
                    MAXEXTENTS
                                  9999
     PARTITION C;
CREATE TABLE SOURCES (
    SOURCENO
                                                       NOT NULL,
                             NUMBER
                                            (5,0)
     SOURCE
                             CHAR
                                            (64)
                                                       NOT NULL )
SPACE SPACE_GCSMALL;
CREATE UNIQUE INDEX METHODNO ON METHODS (METHODNO);
CREATE UNIQUE INDEX METHOD ON METHODS (METHOD);
A2.14 Storeboxes Table Description:
CREATE SPACE DEFINITION SPACE GSMALL
                  ( INITIAL
     DATAPAGES
                    INCREMENT
                                  50,
                    MAXEXTENTS
                                  9999,
                    PCTREE
                                  25
                                       )
                  ( INITIAL
     INDEXPAGES
                                  20,
                    INCREMENT
                                  12,
                    MAXEXTENTS
                                  9999
```

PARTITION C;

CREATE TABLE STOREBOXES (
BOXNO	NUMBER	(5,0)	NOT NULL,
ORIGNO	NUMBER	(5,0),	
FROMSAMPNO	CHAR	(16)	
TOSAMPNO	CHAR	(16)	
PROJECT	CHAR	(64))
SPACE SPACE GCSMALL:			

CREATE UNIQUE INDEX STOREBOXNOS ON STOREBOXES (BOXNO);

A2.15 Maxnos Table Description:

```
CREATE SPACE DEFINITION SPACE_GSMALL
    DATAPAGES
                  ( INITIAL
                    INCREMENT
                                 50,
                    MAXEXTENTS 9999,
                    PCTFREE
                                 25
    INDEXPAGES
                                 20,
                  ( INITIAL
                    INCREMENT
                                 12,
                    MAXEXTENTS 9999 )
    PARTITION C;
CREATE TABLE MAXNOS (
    IDMAXNO
                            CHAR
                                           (16)
                                                      NOT NULL,
    MAXNO
                            NUMBER
                                           (6,0)
                                                      NOT NULL )
SPACE SPACE_GCSMALL;
```