

Tasmanian Acid Drainage Reconnaissance

Report 1 Acid drainage from abandoned mines in Tasmania

MINERAL RESOURCES
TASMANIA



**Tasmanian Geological Survey
Record 2001/05**



**Natural
Heritage
Trust**
*Helping Communities
Helping Australia*

Tasmanian Acid Drainage Reconnaissance

1. Acid drainage from abandoned mines in Tasmania

Dr Shivaraj Gurung

FOREWORD

Acid drainage, resulting from the oxidation of sulphide-bearing rocks, is recognised as one of the major sources of heavy metal pollution in many of waterways proximal to metal mining sites in Tasmania. Prior to this investigation, only limited information was available on the extent of acid drainage impact from historic abandoned mine sites.

Section 37.5 of the Tasmanian *State Policy on Water Quality Management* (1997) requires that “an inventory of sources of acid drainage from historic mine workings should be carried out”. This reconnaissance investigation provides a basis for this inventory. The program is a component of the proposed *State Water Quality and Quantity* programs and was largely funded by the National Heritage Trust. Water analyses were carried out by the Department of Primary Industries, Water and Environment at the Analytical Service Tasmania laboratory. Geochemical analyses, map production and project management were carried out by Mineral Resources Tasmania.

This report primarily focuses on acid drainage from abandoned mine sites in Tasmania. It presents new data and the compilation of existing data on water chemistry and geochemistry associated with abandoned mine sites in Tasmania. The report accompanies a series of acid drainage impact maps and an inventory of acid-producing abandoned mine sites.

Mineral Resources Tasmania PO Box 56 Rosny Park Tasmania 7018
Phone: (03) 6233 8377 ● Fax: (03) 6233 8338
Email: info@mrt.tas.gov.au ● Internet: www.mrt.tas.gov.au

EXECUTIVE SUMMARY

There are over 4000 recorded mineral activity sites in Tasmania. About 681 sites are classified as metal mining related abandoned mines that contain sulphide minerals associated with their deposit history. Commonly occurring sulphide minerals, such as pyrite and pyrrhotite, can generate sulphuric acid when exposed to oxidising conditions and in the presence of certain metallogenic bacteria. The resulting acid drainage can mobilise heavy metals which can seriously affect soils and water quality in the receiving environments. Several abandoned mines in Tasmania are currently producing acid drainage or have the potential to do so if disturbed.

Surface waters impacted by abandoned mine sites typically show high sulphate and metal distribution at a pH range of 2.0 to 5.0. The impacted waters generally show metal distribution in the high acid/extreme metal to low acid/low metal range. A similar trend was shown by sulphate distribution. Elevated levels of metals and sulphate downstream from several abandoned mine sites indicate that active sulphide oxidation is occurring and these sites may be potential point sources of metal pollution in the receiving environment. High correlation between metal and sulphate distribution suggests that sulphate distribution in surface waters may be used as a cost effective investigation tool for preliminary assessment of acid drainage.

Geochemical results indicate that occurrences of high sulphate and high metal waters are closely associated with abandoned mine sites containing sulphidic rock materials with high net acid producing potential (NAPP). Many of the volcanic-hosted mineralised metasediments in the West Coast mineral fields generally have NAPP >500 kg H₂SO₄/t and low to negligible acid neutralising capacity (ANC). Carbonate-hosted base-metal abandoned mine sites were found to be generally high acid producers, mainly because of the presence of high NAPP ore rocks and restricted availability of acid neutralisation from the host rock. Waste rocks and tailings materials at many of the abandoned mine sites also commonly contain anomalously high concentrations of trace metals (As, Cu, Pb, Zn, Sn and W). Similar high levels of trace metals reflected in surface waters and stream sediments proximal to mine sites suggest that there is a significant release of these metals into the receiving environment.

The reconnaissance survey indicated that several abandoned mine sites show acid drainage and heavy metal pollution problems. The extent of the impact on the receiving environment is difficult to assess from the currently available information. Detailed hydrogeochemical characterisation, together with baseline data on mass loadings and environmental parameters, need to be assessed prior to recommending cost effective remediation of problem sites identified in this survey.

ACRONYMS

ABA	Acid base accounting
AD	Acid drainage
AFR	Acid forming rocks
ANC	Acid neutralising capacity
ANZECC	Australian and New Zealand Environment Consultative Committee
BORIS	Groundwater bore database
DORIS	Drill hole database
HYDROL	Water quality database
EC	Electrical conductivity
MIRLOCH	Mineral deposits database
MPA	Maximum potential acidity
NAFR	Non-acid forming rocks
NAPP	Net acid producing potential
PAFR	Potential acid forming rocks
ROCKCHEM	Whole-rock and mineral chemistry database
TASGEOL	Rock unit database
TASSED	Stream sediment geochemical database

CONTENTS

FOREWORD	1
EXECUTIVE SUMMARY	2
ACRONYMS	2
INTRODUCTION	5
OBJECTIVES	6
ANALYSIS	6
Desktop evaluation of historical data	6
<i>Water quality data</i>	6
<i>Geochemical data</i>	6
Water sampling and analysis	7
Geochemical sampling and analysis	7
Data analysis	7
Presentation of survey results	8
RESULTS AND DISCUSSION	9
Impact of abandoned mines on water quality in Tasmania	9
<i>Distribution of sulphate in waters</i>	9
<i>Distribution of metals in waters</i>	11
Geochemical classification of abandoned mines	11
Inventory of acid-producing abandoned mines in Tasmania	14
<i>Arthur River catchment</i>	14
<i>Pieman River catchment</i>	16
<i>King River catchment</i>	17
<i>Little Henty River catchment</i>	16
<i>Ringarooma River catchment</i>	20
<i>South Esk catchment</i>	22
<i>King Island</i>	23
<i>Flinders Island</i>	23
CONCLUSIONS	26
RECOMMENDATIONS	26
ACKNOWLEDGMENTS	26
REFERENCES	27

APPENDICES

1. Inventory of acid-producing abandoned mines in Tasmania	29
2. Water chemistry data	51
3. Geochemical data	68

FIGURES

1. (a) Distribution of sulphate in surface waters impacted by abandoned mines	
(b) Selected site characterisation by sulphate levels in waters	10
2. (a) Distribution of metals in surface waters impacted by abandoned mines	
(b) Selected site characterisation by metal levels in waters	12
3. Comparative distribution of selected acid producing mine sites	13
4. Hydrogeochemical legends for Figures 5 to 12	14
5. Hydrogeochemical expression of acid drainage in the Arthur River catchment	15
6. Hydrogeochemical expression of acid drainage in the Pieman River catchment	17
7. Hydrogeochemical expression of acid drainage in the King River catchment	18
8. Hydrogeochemical expression of acid drainage in the Little Henty River catchment	19
9. Hydrogeochemical expression of acid drainage in the Ringarooma River catchment	21
10. Hydrogeochemical expression of acid drainage in the South Esk River catchment	23
11. Hydrogeochemical expression of acid drainage on King Island	24
12. Hydrogeochemical expression of acid drainage on Flinders Island	25

TABLES

1. Description of historical water quality data sources	6
2. Description of Mineral Resources Tasmania databases	7
3. Acid base accounting (ABA) analysis procedure	8
4. ABA screening criteria	8
5. Average surface water quality in catchments impacted by abandoned mines	9
6. Catchment-wise inventory of acid-producing abandoned mines in Tasmania	14

PLATES

1. Surface runoff of acid drainage at Balfour copper mine	15
2. Acid drainage in open shaft at Balfour copper mine	16
3. Acid drainage discharge from Mt Bischoff tin mine adit	16
4. Acid drainage at Mt Bischoff	16
5. Acid drainage impacted Linda Creek, Mt Lyell	18
6. Surface runoff of acid drainage at Austral tailings site, Zeehan	19
7. Low pH-high metal wetland sediment near the Florence mine, Zeehan	20
8. Acid drainage discharge from Queen Hill adit, Zeehan	20
9. Acid drainage impacted Zeehan Rivulet	20
10. Acid drainage discharge from Round Hill adit, Sheffield area	22
11. Surface ponding of acid drainage, Endurance tin mine tailings	22
12. Acid drainage impacted Ruby Creek, Endurance tin mine	22

MAPS

1. Distribution of low pH-high sulphate surface waters in catchments impacted by abandoned mines	97
2. Distribution of low pH-high metal surface waters in catchments impacted by abandoned mines	98
3. Geochemical distribution of potential acid forming rocks hosting abandoned mines in Tasmania	99

While every care has been taken in the preparation of this report, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any persons whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this report.

INTRODUCTION

Acid drainage (AD) is defined as low pH-high metal and high sulphate-bearing waters, formed when rocks and sediments containing sulphide minerals are exposed to the atmosphere under an oxidising environment. Commonly occurring sulphide minerals, such as pyrite and pyrrhotite, produce sulphuric acid when oxidised in the presence of certain metallogenic bacteria. The resulting acid drainage is a major pollution problem because of its ability to mobilise toxic levels of heavy metals which can have serious impact on the receiving environments. Mining operations can expose large quantities of sulphidic rocks, and produce mine waste rocks and tailings rich in sulphide minerals. A legacy of past mining activity are the numerous historic and derelict abandoned mines world-wide, many of which are potential or active sources of acid drainage.

Over the last decade there have been concerted efforts to understand the acid drainage generation processes in order that effective mitigation measures could be developed to minimise the impact on the receiving environments. Literature that specifically describe the basic chemistry of acid drainage generation processes from the oxidation of sulphide minerals and some of the innovative techniques for mitigation includes Parker and Robertson (1999), Evangelou and Zhang (1995), Alpers and Blowes (1994) and Nordstrom (1982). An Internet website (<http://www.infomine.com/technology/enviromine/ard/home.htm>) also contains relevant information on acid drainage and related subjects.

Although there are various studies and reports on acid drainage from mine sites across Australia, abandoned mine sites are often ignored except for their heritage values. In an Australia-wide survey of acid drainage at operating mine sites, Harries (1997) identified 317 sites (out of 517 significant mining operations surveyed) as containing potentially acid generating wastes. Seven of the mines (Beaconsfield, Hellyer, Henty, Mt Lyell, Renison, Rosebery and Savage River) are located in Tasmania. The data relate only to major deposits that contain significant amounts of pyrite and pyrrhotite and do not include hundreds of abandoned mines that have low sulphide but high acid generating potential. Acid drainage from abandoned mines is no doubt a serious environmental problem but to date there is no inventory showing the extent of its impact in Australia.

In Tasmania, there is no record of a statewide survey of acid drainage from historic mine sites. Heritage listing of historic mine sites has been carried out by Bell (1993) but does not discuss issues on acid drainage. Independent studies and research reports on acid

drainage and rehabilitation are available for a number of abandoned mine sites that have been recognised as currently having acid drainage problems. These sites include the Zeehan mineral field (ESPL, 1999; Oosting, 1998; Taylor, 1998; Parr, 1997; Ladiges, 1995), Razorback and Red Lead in the Dundas area (Lawrence, 1996), Storys Creek (Miedecke, 1998) and Endurance in the northeast tin mining area (de Jong, 1999; SEMF, 1998). Environmental impact assessment reports and research studies on acid drainage are also available for recently closed and operating mine sites (WMRL, 1999, 2000; Dellar, 1998; Smith, 1998; CMT, 1998; SEMF, 1998; PRM, 1996, 1998; ABM, 1996, 1997; HGM, 1997; Miedecke, 1996; EGI, 1996; Renison, 1995; Chilcott *et al.*, 1991). Although not part of this survey, there are also reports on acid drainage from road metal quarry sites, the most prominent being at Reekara and Pearshape on King Island (McKeown, 1999; Innes, 1993). The information from available reports and research studies are site-specific to known sites of acid drainage occurrence.

A statewide reconnaissance survey of acid drainage from abandoned mine sites was carried out during the 2000/2001 summer periods. The survey primarily focussed on assessments of water chemistry, the geochemistry of host rocks and the deposit history of abandoned mine sites. As a regional survey must also include information from current and recently closed operations, selected information pertaining to these sites was obtained from environmental management plans and incorporated in this report. These mines have, and continue to operate, under various permits, environmental management plans, environmental improvement plans and environmental decommissioning and rehabilitation plans which are available on the public record. No comment on these operations or the regulation thereof has been made in this report.

A combination of methods involving geology, geochemistry and surface water chemistry were used to build an inventory of the distribution of acid producing abandoned mine sites and their impact on the surface water quality. The results are presented in a series of acid drainage impact maps. This report is part of an integrated project comprising a statewide survey of acid drainage from abandoned mine sites and acid sulphate soils in Tasmania.

The inventory is in no way complete and its reliability is largely dependent on the accuracy of the historical data used for geochemical classifications of rock types at or proximal to abandoned mine sites. However, the information compiled so far can help aid in screening abandoned mines that are potential sources of acid drainage and warranting further investigations.

OBJECTIVES

The overall objective of this reconnaissance was to implement section 37.5 of the *Tasmanian State Policy on Water Quality Management* (1997):

“An inventory of sources of acid drainage from historic abandoned mine workings in Tasmania should be carried out and remedial programs developed to address priority problem areas”.

The specific project objectives were:

- to identify the extent of acid contamination of waterways through the drainage from sulphide-bearing rocks;
- to locate and define the extent of land and waterways affected by acid drainage;
- to define areas and geological units where there is the potential for acid drainage to occur as a result of development or disturbance; and
- to prepare a report defining these and to suggest strategies to limit the potential impacts.

ANALYSIS

Desktop evaluation of historical data

Water quality data

Historical water chemistry data extracted from various sources (Table 1) include analyses which roughly fall within the sampling period of this investigation (January–June). The bulk of the historical data lacked the sulphate and metal analyses required in the routine characterisation of acid drainage and most sites were located away from the abandoned mine sites

investigated in this survey. Water quality data from environmental monitoring reports are specific to recently closed and operating mines sites and are therefore outside the scope of this investigation. Data from independent reports and research were limited to sites such as Zeehan, Endurance and Storey Creek.

Groundwater data (from the BORIS database) were primarily from bores drilled on agricultural and urban lands and are therefore unsuitable for the purpose of this investigation. Limited data available from abandoned mine sites pre-date 1960 and the validity and sources of analytical results are questionable.

The majority of the historical water quality data lacked standard reporting procedures for concentration units. Because the analytical results were reported either in weight basis (ppm, ppb) or volume basis (mg/L; µg/L), it was necessary to standardise the units for data analysis in this report. For data analysis and interpretation in this study I have assumed ppm and ppb as equivalent to mg/L and µg/L respectively. This assumption is considered valid for relatively dilute concentrations, as is the case for most of the data in the HYDROL database.

In general, the available historical water quality data were found inadequate for assessing acid drainage from abandoned mines in Tasmania.

Geochemical data

Information on the geological setting and mineralisation history of the abandoned mines is useful in targeting areas of base-metal sulphide mineralisation with potential to generate acid drainage conditions. Paste pH, electrical conductivity (EC), total sulphur, acid neutralising capacity (ANC) and trace element concentrations are important parameters in geochemical assessments of acid-forming rock materials.

Table 1
Description of historical water quality data sources

<i>Data source</i>	<i>Description</i>	<i>Reference #</i>
HYDROL	Chemical and biological analysis of mainly surface waters	Dellar, 1998
BORIS	Groundwater analysis	BORIS database
Technical report	Mostly water analyses from West Coast mining sites (often repeated use of same historical data sets)	Koehnken, 1992; Miedecke, 1996, 1998; SEMF, 1998, 2000
EIP, EMP & EDP	Mine environmental monitoring reports	WMRL, 1999, 2000; CMT, 1998 (vol. 1 & 2); Lane, 1998; ABM, 1997; Laszczyk & Lane, 1997; PRM, 1995, 1996, 1998
Research reports	Water analysis on localised study areas	Innes, 1993; Ladiges, 1995; Lawrence, 1996; Oosting, 1998; Taylor <i>et al.</i> , 1996; Parr, 1997; Taylor, 1998; Dellar, 1998; Smith, 1998; de Jong, 1999.

Full listing under Reference section of this report.

Table 2
Description of Mineral Resources Tasmania databases

Database name	Description	Data extracted	Source
MIRLOCH	Mineral deposits and locations	Abandoned mines, commodity mined, sulphide associations	
ROCKCHEM	Whole-rock geochemistry	Total S and trace metals	
TASGEOL	Geology of Tasmania	Background geology, rock type (RCODE)	
TASSED	Stream sediment survey	Stream sediment geochemistry	
DORIS	Drill core and logs	Core analysis (total S and trace metals)	
AMIRA Project P439	Geochemistry and mineralisation	Geochemical background of the Mt Read area	AMIRA, 1997

Mineral Resources Tasmania maintains several databases relating to geological investigations and mineral exploration. Databases relevant to this project are listed in Table 2. The major shortfall in these databases was the lack of sulphur analyses which are required in acid base accounting analysis (ABA) for calculating acid producing potential of the sample. The available sulphur data represented rock types for only a small area of the West Coast mineral field and were insufficient for statewide assessment of the geochemical distribution of acid-forming rocks. No paste pH, EC and ANC were found in the database.

Water sampling and analysis

Surface water sampling in this survey was carried out in the period January to June 2000. Field sampling protocols outlined in Ficklin and Mosier (1999) and laboratory analysis procedures in Rayment and Higginson (1994) and Crock *et al.* (1999) were followed closely. Over 385 sites were investigated with 285 sites being sampled.

Field measurements of pH, electrical conductivity (EC) and temperature (T) were carried out using a hand held Multiline P3 pH/LF WTW multimeter. Water samples for laboratory analysis were collected in acid washed 250 mL polyurethane bottles and dispatched to the Analytical Services Tasmania laboratory at the University of Tasmania within 48 hours of collection. Laboratory analysis was conducted for pH, EC, alkalinity, acidity, sulphate and a suite of dissolved and total metals (Al, As, Cd, Cu, Fe, Mn, Pb, Zn). In this report, EC is reported in dS/m, alkalinity and acidity in mg CaCO₃/L and sulphate, dissolved and total metal analysis in mg/L. Although flow data is an important component in quantifying pollutants in waters, it was not measured because of resource and time constraints on this project.

Geochemical sampling and analysis

A total of 153 rock and sediment samples for geochemical analysis were collected from selected abandoned mine sites, as well as samples of country rocks hosting the mineralised areas. Approximately 5–10 kg of samples were collected from each location and analysed at the Mineral Resources Tasmania

laboratory. Total sulphur (S%) and trace element concentrations (mg/kg) in the samples were determined by X-ray fluorescence in pressed powder pellets. The acid neutralising capacity (ANC) of the samples was determined by dissolving in 0.1 M HCl and back-titrating with standard 0.1 M NaOH standard solution to endpoint pH 7.0. Paste pH and EC were measured in 1:1 and 1:5 sample to deionised water ratio respectively.

Data analysis

A modified classification scheme of Ficklin *et al.* (1992) was used to characterise sulphate and metal distribution in waters from catchments impacted by abandoned mine sites. The Ficklin classification of acid drainage uses pH versus sum of dissolved metals (Cd, Co, Cu, Ni, Pb and Zn) plots to characterise acid drainage. Although Fe, Al and Mn are generally the most abundant metals in acid drainage, and since concentrations of dissolved base metals in the natural drainage are generally very low, these elements are also included in the plots as weighting factors. In the Ficklin plot, classified waters are used to generate acid drainage impact maps depicting spatial distribution of low pH-high metal surface waters in catchments impacted by abandoned mines.

A large part of the historical water quality data lacked complete metals and sulphate analysis for a particular site and most did not generally represent sites investigated in this survey. As both metals and sulphate distribution are pH dependent for a specific area or catchment, simple correlation equations were found suitable for predicting either metals or sulphate in surface waters impacted by abandoned mine sites. Generally samples with high dissolved metals also contain high sulphate, especially if the waters are sourced from sulphide-bearing sites where active oxidation is taking place. Significantly high correlation between sulphate and dissolved metals indicated that, in the absence of metal analysis, sulphate values may be used to characterise acid drainage. A classification scheme similar to the Ficklin plot but using sulphate was also introduced to generate a sulphate distribution map depicting low pH-high sulphate waters, indicating active acid generation at abandoned mine sites.

Table 3
Acid base accounting (ABA) analysis procedure

Description	Units#	Calculations
Maximum Potential Acidity (MPA)	kg H ₂ SO ₄ /t	Total S (%) * 30.6
Acid Neutralising Capacity (ANC)	kg H ₂ SO ₄ /t	Acid neutralised to endpoint pH 7.0
Net Acid Producing Potential (NAPP)	kg H ₂ SO ₄ /t	MPA - ANC

Also expressed as kg CaCO₃/t

Table 4
ABA screening criteria

NAPP (kg H ₂ SO ₄ /t)	Rock Type	Geochemical Class
NAPP >20	Acid-forming rocks (AFR)	I
NAPP 0-20	Potential acid-forming rocks (PAFR)	II
NAPP <0	Non acid-forming rocks (NAFR)	III

The acid-base accounting (ABA) analysis procedure is the commonly used static test for preliminary screening of acid-generating sulphidic rocks (White *et al.*, 1999; Ferguson and Erickson, 1988; Sobek *et al.*, 1978). The ABA analysis procedure involves determination of total sulphur (S%) and the acid neutralising capacity (ANC) of the rock materials to derive net acid producing potential (NAPP) of a sample (Table 3).

The ABA screening criteria used to categorise acid-forming properties of the rock types associated with abandoned mine sites are presented in Table 4. Theoretically, a sample will generate acid if NAPP > 0 but this assumption is not always true since other factors such as sulphide forms and reactivity, acid neutralisation capacity of host rocks and degree of exposure to local environmental conditions can affect the net acid being formed. The aim of the ABA analysis is to provide preliminary screening of rock materials with potential to generate acid and metal leaching capacity. Follow-up kinetic tests involving column leaching and field trials are necessary if prescriptive remediation measures are to be implemented.

In generating the geochemical map, assignment of NAPP values to different rock types was achieved by obtaining average total S and ANC values for each rock type. A total of 16,191 records of average NAPP values assigned to various rock types (RCODE) covering all of Tasmania were used to generate a digital spatial surface with a grid cell size of 200 metres.

ArcView Spatial Analyst was used to create the grid surface. The inverse distance weighted (IDW) interpolation method was used to create the digital elevation models from NAPP values and stream coverage. This method uses an iterative finite difference interpolation technique similar to global interpolation methods such as kriging and splines (Hutchinson, 1989).

Presentation of survey results

The final presentation of the survey results are listed below:

- ☐ this report;
- ☐ Acid drainage impact maps:
 - Map 1 – Distribution of low pH-high sulphate surface waters in catchments impacted by abandoned mines;
 - Map 2 – Distribution of low pH-high metal surface waters in catchments impacted by abandoned mines;
 - Map 3 – Geochemical distribution of potential acid-forming rocks hosting abandoned mines in Tasmania.
- ☐ inventory of abandoned mines (Appendix 1);
- ☐ water chemistry data (Appendix 2);
- ☐ geochemical data (Appendix 3).

RESULTS AND DISCUSSION

Impact of abandoned mines on water quality in Tasmania

Surface waters in catchments affected by abandoned mine sites showed wide variations in dissolved metals and sulphate concentrations at pH range 2.0–9.0 (Table 5). This wide variation in surface water chemistry suggests that characterisation of acid drainage requires multi-parameter analysis in routine environmental impact assessment. The insignificant differences between dissolved and total metal concentration in waters indicated that metal pollutants at low pH were primarily in dissolved forms. Except for pH, all the measured parameters in surface waters affected by the mines showed log normal distribution. The pH was generally <5.0 and showed a bimodal distribution, primarily controlled by the relative concentration of dissolved metals. Similar observations were also made in acid drainage from many coal mines in the United States and Canada (Brady *et al.* 1997). The mean surface water quality was generally ten times above the critical limits for aquatic environmental flow and the ANZECC (1992) standard for aquatic environments (Table 5).

The correlation of measured parameters (pH, EC, alkalinity, acidity, SO_4^{2-} , Al, As, Cd, Cu, Fe, Mn, Pb, Zn) in surface waters indicated that (except for EC, As and Cd) pH was the dominant factor influencing the relative distribution in solution. EC was highly correlated with acidity, SO_4^{2-} , and Al. Heavy metals Cu, Pb and Zn were significantly correlated with both Al, Fe and Mn, indicating that their relative mobility may be dependent upon co-precipitation with these metals as oxy-hydroxide gel formation at higher pH.

Distribution of sulphate in waters

Elevated levels of sulphate in waters sourced from abandoned mine sites containing sulphidic rock

materials are a good indication that acid generation might be occurring in the area. Sulphate levels in the acid drainage affected waters ranged from 0.20 to 13 900 mg/L at pH 2.0–9.0 (Table 5). Most metal analyses from impacted sites plotted below pH 5.0 in the Ficklin-type diagram, indicating that high acid/high sulphate waters are most likely to originate from mine sites that contain exposed or disturbed sulphidic materials undergoing active oxidation (fig. 1a). Low acid/high sulphate waters that plot above pH 5.0 may represent residual sulphate accumulated from periodic acid generation at the site.

Low acid/low sulphate waters are most likely to be depleted with sulphate, which is likely to be incorporated in the formation of sulphate minerals such as jarosite, alunite and gypsum. The sulphate level in the water is likely to be affected by the magnitude of the flow and presence/absence of alkaline materials in its flow path. Most natural background waters have low to high sulphate levels, generally in the range 0.2–100 mg/L and field pH > 5.0. The overall distribution of sulphate in surface waters impacted by abandoned mines is shown in Map 1.

Most abandoned mines with a base metal mining history generally released high acid/high sulphate waters (fig. 1b). The dominant base metals in most of the abandoned mines in the West Coast region are Cu, Pb and Zn, and these metals are likely to be precipitated as secondary sulphate minerals together with Fe and Al. In carbonate-hosted replacement deposits, such as at Zeehan and Mt Bischoff, surface precipitation of gypsum is evident at several sites where dolomitic waste rock and tailings dumps occur. At the Austral smelter site in Zeehan, a white precipitate of gypsum and zinc sulphate is formed on the slag surface during dry periods and is subsequently leached into Austral Creek during surface runoff.

Table 5
Average surface water quality in catchments impacted by abandoned mines

Parameter	No. of samples	Minimum	Maximum	Mean	ANZECC Aquatic (1992)
pH	850	2.00	9.0	5.45	6.5–9.0
EC (dS/m)	776	0.001	5.8	1.0	
Acidity (mg CaCO_3 /L)	377	0.02	10 000	254	
Alkalinity (mg CaCO_3 /L)	418	0.03	8 100	117	
SO_4^{2-} (mg/L)	592	0.20	13 900	557	400
Al (mg/L)	532	0.0001	880	12.4	0.01
As (mg/L)	448	0.001	43.91	0.41	0.05
Cd (mg/L)	606	0.001	3.71	0.03	0.002
Cu (mg/L)	654	0.001	180	2.52	0.005
Fe (mg/L)	631	0.001	2 230	34.5	1.0
Mn (mg/L)	604	0.001	274	4.4	
Pb (mg/L)	650	0.001	27.4	0.21	0.005
Zn (mg/L)	672	0.001	728	7.45	0.01

Metal analyses are in dissolved form.

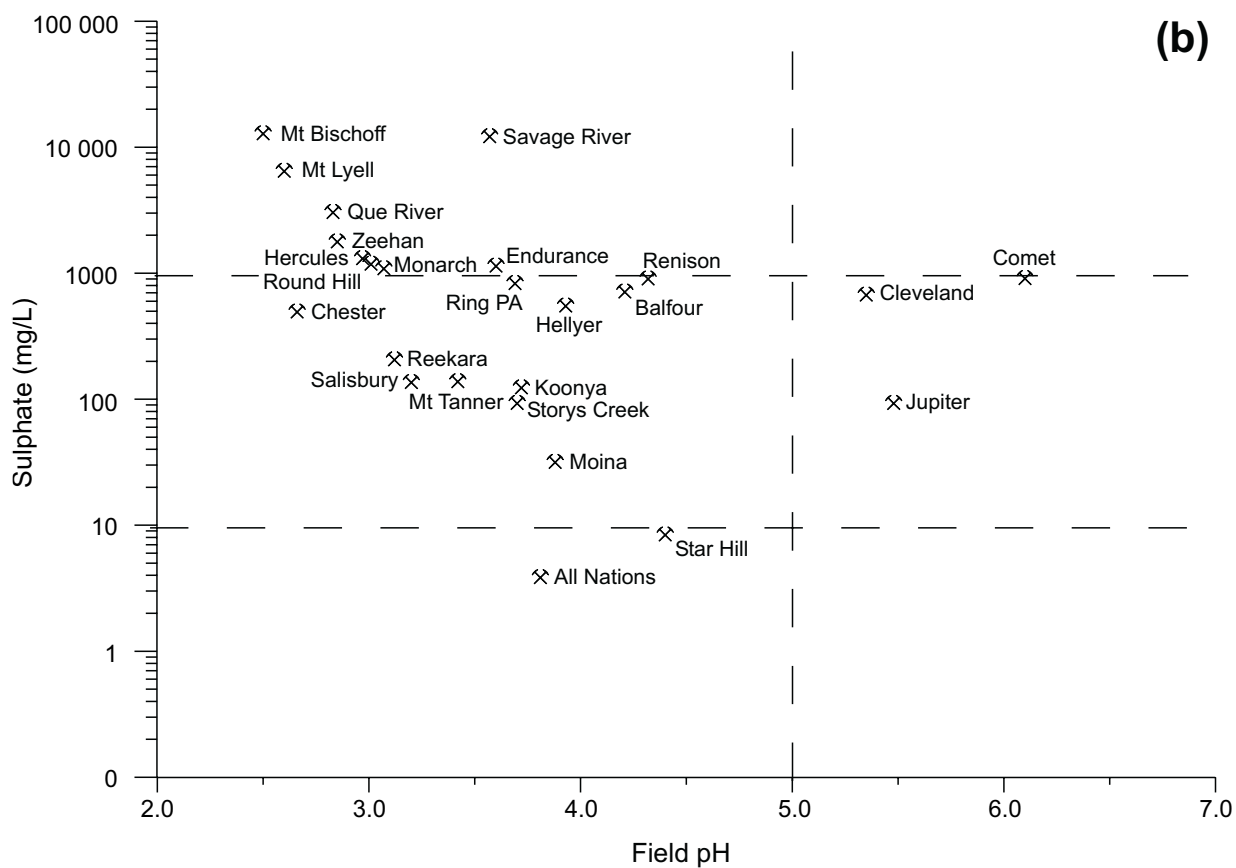
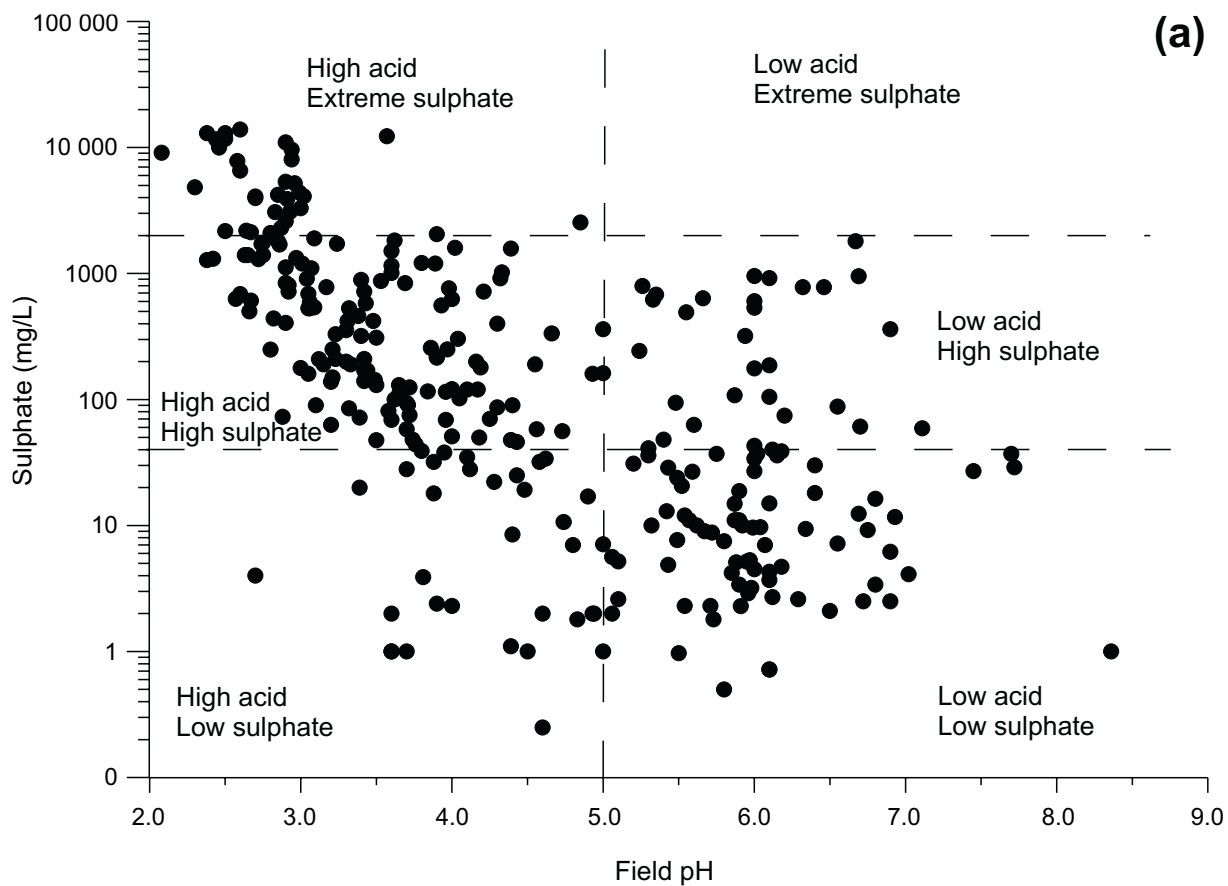


Figure 1

(a) Distribution of sulphate in waters impacted by abandoned mines
 (b) Selected site characterisation by sulphate levels in water

Distribution of metals in water

Dissolved metal concentrations in the abandoned mine impacted surface waters ranged from 0.01 to 4366 mg/L at pH ranging from 2.0 to 5.0 (fig. 2a). The overall mean concentration of dissolved metals were in the order $Al > Zn > Cu > As > Pb > Cd$. High acid/high metal waters generally originated from mines that have a history of base metal mining (fig. 2b). Low acid/high metal waters are likely to represent precipitated metals accumulated during periodic acid generation at the site, while high acid/low metal waters may indicate the possible formation of sulphate-induced secondary minerals.

At low pH, dissolved As, Cu and Pb were the most common metals while Al and Zn remained mobile throughout the pH range of 2.0–8.0. Because of their high tendency to adsorb into colloids, Cu and Pb are the dominant species found in low pH waters while Zn, which has a limited adsorption capacity, was predominantly mobile at a wider pH range. Surface waters draining several sulphide-bearing abandoned mines in the West Coast mineral field had near-neutral pH but contained elevated levels of dissolved metals, especially Al and Zn. Therefore, near-neutral waters sourced from some mine sites may contain toxic levels of metals likely to be hazardous to the aquatic environment.

Both sulphate and dissolved metal distributions were found to be equally expressive in depicting acid drainage characteristic in surface waters affected by abandoned mine sites. The base metal deposits of the West Coast mineral field are generally associated with high metals/high sulphate waters compared to granite-induced tin and gold deposits of the northeast tin mining areas (except for Endurance, where panned concentrates of pyrite in fast-weathering granite tailings have resulted in perched AD plumes). The concentrations of dissolved metals in impacted waters are likely to be affected by the magnitude of the flow and presence/absence of alkaline materials along the flow path. Wide variations in the distribution of metals suggest that mobility of metals in acid to near-neutral waters is largely controlled by the wide solubility characteristics of these metals.

Surface waters impacted by abandoned mines during base flow period (January–June) are generally high acid/high sulphate/high metals, and for a particular mineral field can be represented by the following correlation equations where [sulphate] and [metal] concentrations are in mg/L:

$$pH = 6.4 - 0.44 \text{ Log [sulphate]} - 0.86 \text{ Log [metals]} \quad (R^2 = 65\%)$$

$$\text{Log [sulphate]} = 2.4 - 0.18 \text{ pH} + 0.42 \text{ Log [metals]} \quad (R^2 = 59\%)$$

$$\text{Log [metals]} = 1.5 - 0.36 \text{ pH} + 0.44 \text{ Log [sulphate]} \quad (R^2 = 69\%)$$

The above correlations are likely to vary with intensity of runoff and magnitude of the surface water flow. The metal carrying capacity and the rate of precipitation is normally dependent on the acidity of the acid drainage

waters and the distance to the receiving environment. Although rapid precipitation of iron and aluminium hydroxides with increasing dilution of acid drainage may in fact trap metals such as Mn and Zn in the hydroxide sludge (Plate 4), a large build up of sludge in the headwaters poses a significant danger to downstream habitat during major flood events. Diffusion of AD from multi-sources can be a major problem for mitigation and may result in streams being permanently 'dead' (Plate 9).

The distribution of abandoned mines according to dissolved metals shows a similar trend to the site characterisation by sulphate distribution (fig. 2b). The distribution clearly shows the relative metal polluting capability of each mine site according to their distribution in the pH-metal field of the Ficklin-type plot. Most abandoned mines with a base metal mining history release waters that contain high to extreme metal concentrations at pH ranging from 2.0 to 5.0. The low sulphide containing abandoned tin mines of northeast Tasmania generally plot in the high acid/low metals range of the Ficklin-type classification. The overall distribution of metals in surface waters impacted by abandoned mines is shown in Map 2.

Geochemical classification of abandoned mines

The geochemical control of the composition of acid drainage is an important criterion in evaluating acid generating properties of the sulphidic materials from abandoned mine sites. The concentration of heavy metals in acid drainage generally reflects their relative abundance in the host rocks. Local geology, deposit type, physiography, density of drainage pattern and environmental conditions have a predominant influence on the variation in acid drainage quality sourced from impacted sites.

The common acid-producing sulphide minerals found at most of the mine sites in Tasmania are pyrite (FeS_2) and pyrrhotite (FeS). Although carbonate-hosted replacement deposits and skarns are generally rich in carbonate minerals, acid drainage generation is still evident at a number of sites, especially at the Balfour copper mine (Plates 1 and 2), Mt Bischoff tin mine (Plates 3 and 4) and in the Zeehan area (Plate 8). In general, the richer the mines with base-metal sulphides, the greater the amount of dissolved heavy metal constituents released in the mine-sourced drainage. Because of the abundance of sphalerite (ZnS), chalcopyrite ($CuFeS_2$), arsenopyrite ($FeAsS$) and galena (PbS) in many of the abandoned base metal mines in the West Coast mineral fields, metals such as Zn, Cu, As and Pb are the dominant trace elements in the sulphidic waste rock and tailings deposits. Waste rocks and tailings deposits at most of these mines are exposed to oxidation processes and generally also have very high NAPP. A similar trend in the relative distribution of these metals in the resultant acid

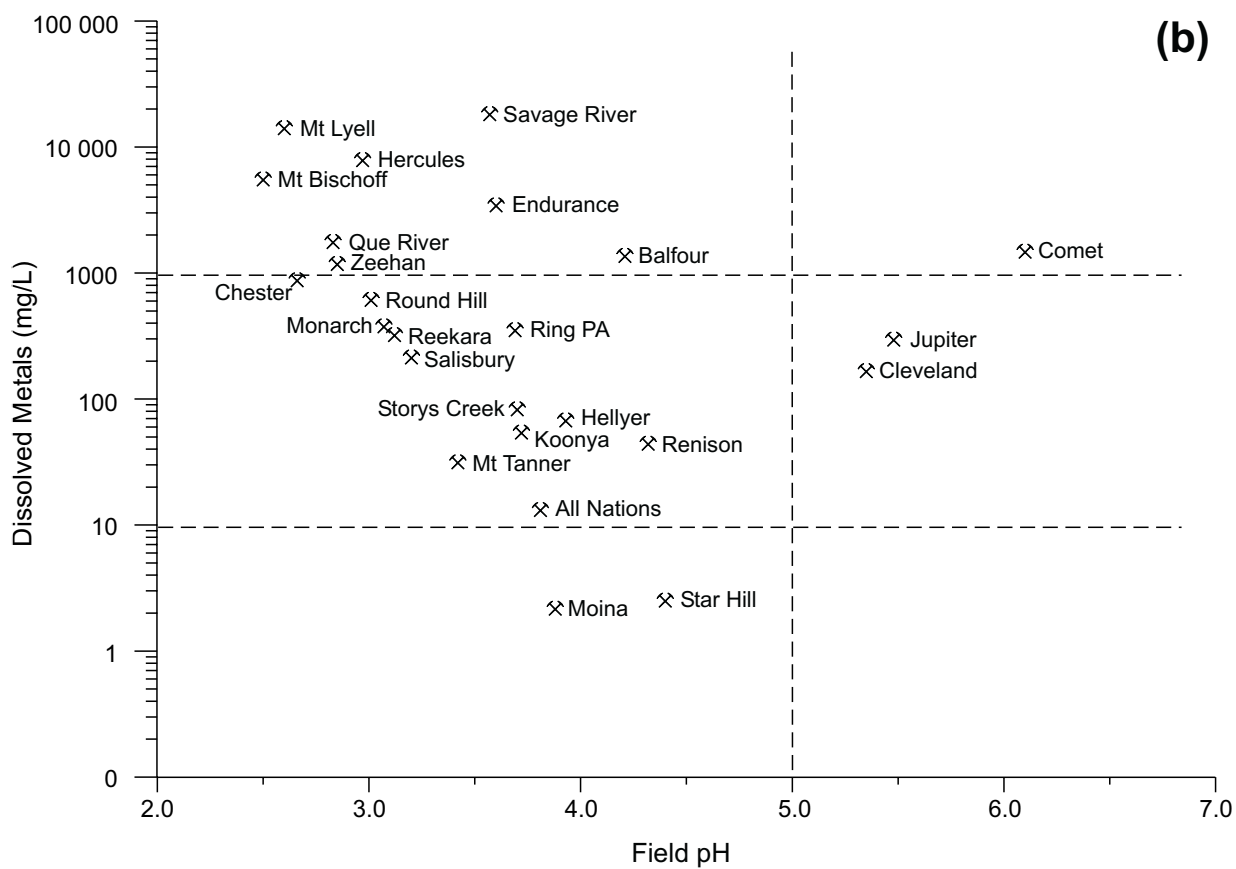
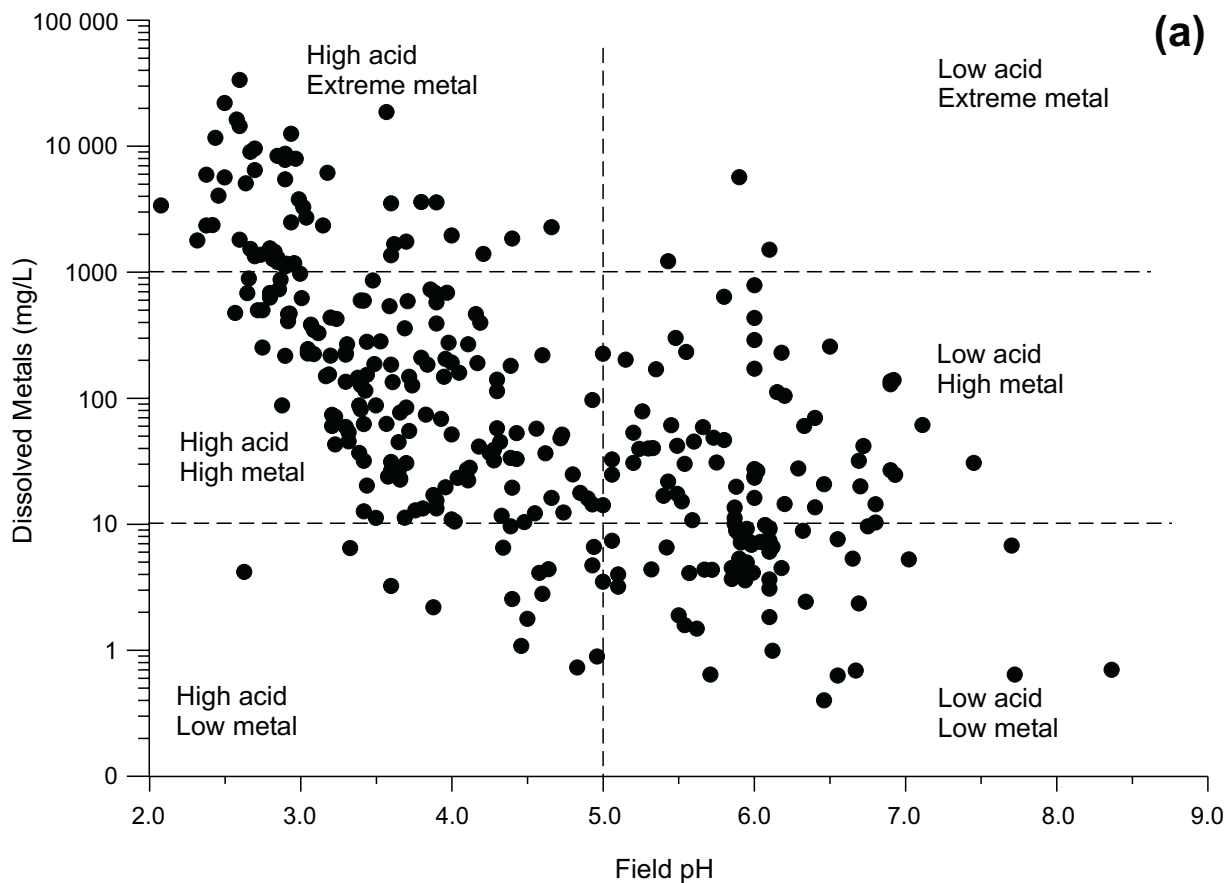


Figure 2

(a) Distribution of metals in waters impacted by abandoned mines
 (b) Selected site characterisation by metal levels in waters

drainage from these mine sites indicated that these metals are likely to be major contaminants discharged into the receiving environment during peak flow events.

Most base metal sulphide deposits in northwest Tasmania are hosted by volcanic rocks and associated pelitic metasediments. Locally, the host rocks have significant pyrite content and at some locations, for example the Mt Read and Mt Lyell areas, barren rocks are prone to weathering and oxidation. Because of the complex nature of the geology in the Mount Read Volcanics complex, the evaluation of the composition of surface waters draining geologically similar deposits located in a similar physio-environment cannot be generalised to predict the likely future water quality in the area impacted by abandoned mine sites. The localised events of acid drainage from specific abandoned mine sites can only be used to predict the likely geochemical environment for acid generation.

The net acid-producing potential of the majority of the base metal deposits in the North West mineral field are relatively high compared to the sulphidic metasediments of the northeast tin mining areas. Comparison of the different deposit types according to their reactivity (relative ease of production of acid) show that acid generation and metal release is not entirely dependent on the quantity of sulphide minerals but on the degree of exposure and weathering index of the host rocks. This is evident at Endurance and Storys Creek, and at the Reekara and Pearshape quarries on King Island. A plot of paste pH against NAPP can be used to classify the reactivity of exposed sulphidic materials according to their relative ease of acid producing capacity (fig. 3). Most base metal deposits have NAPP > 100 kg H₂SO₄/t and negligible ANC to neutralise the acid being produced.

The low sulphide containing waste rocks and tailings at abandoned tin mining sites in northeast Tasmania

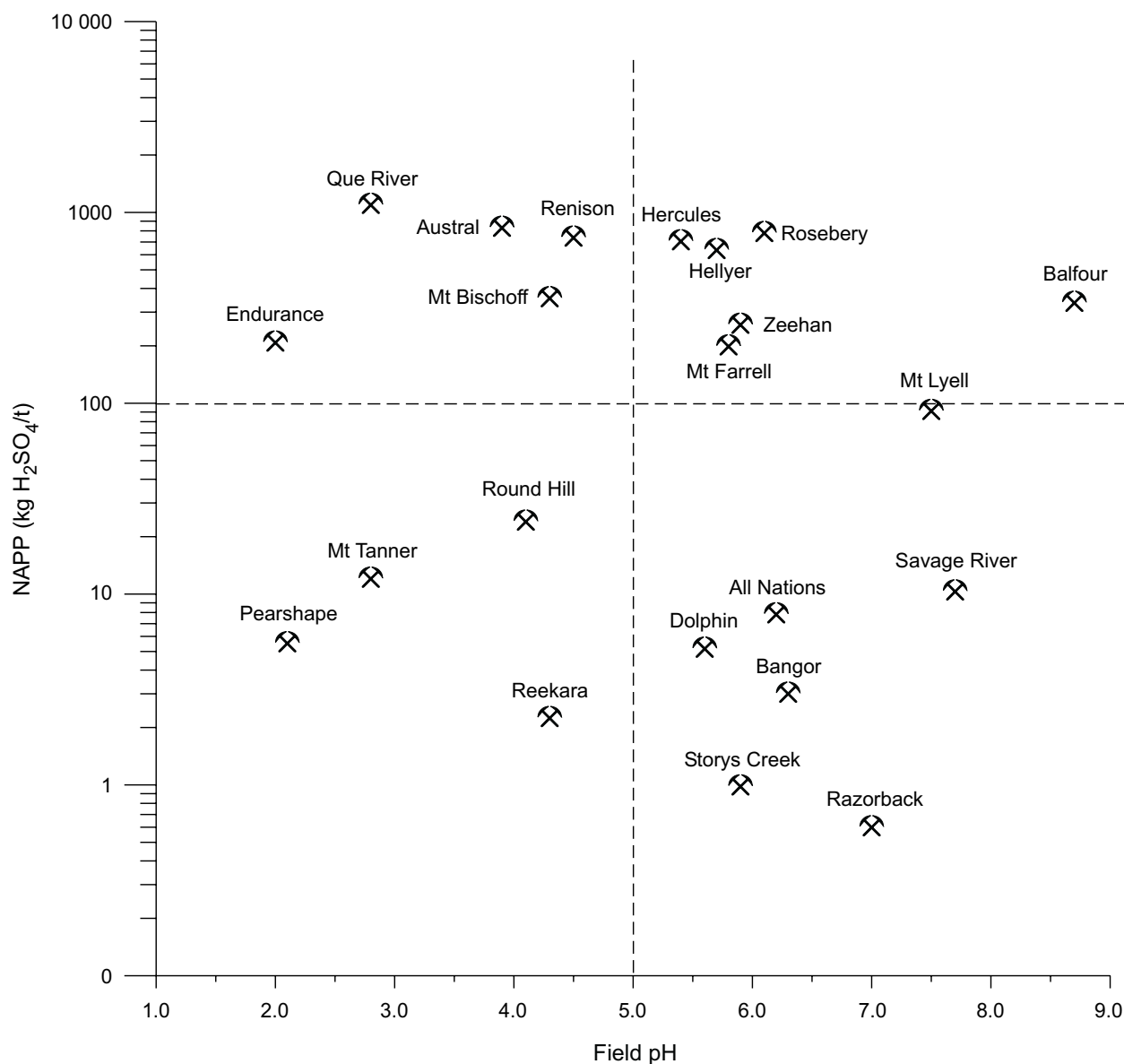


Figure 3
Comparative distribution of selected acid-producing mine sites
(recently closed and some operating mines are also plotted for comparison)

generally plot in the low reactivity zone (fig. 3) except for the Endurance tin mine which plots in the high reactivity zone due to the high sulphide liberation capability of the rapidly weathering granite tailings. Most of the volcanic-hosted base metal abandoned mines in the North West mineral fields plot in the low to high reactivity zones, even though the host rocks commonly have NAPP ranging from 100 to 800 kg H₂SO₄/t.

The geochemical map (Map 3) generated from the digital elevation model surface expression of average NAPP values clearly shows the relative distribution of acid-forming rocks (AFR), potential acid-forming rocks (PAFR) and non-acid forming rocks (NAFR) in Tasmania. The majority of the potential acid producing abandoned mines were found to be located within AFR and PAFR zones in the geochemical map.

Inventory of acid-producing abandoned mines in Tasmania

Several abandoned mines, as well as recently closed and operating mines, were investigated in this survey. Many of the abandoned mine sites contained exposed sulphidic waste rocks and tailings deposits that are prone to oxidation processes and hence acid generation. A catchment breakdown of the inventory of mines with potential to produce acid drainage from oxidation of sulphidic materials is given in Table 6. The abandoned mine inventory with geochemical classification is presented in Appendix 1.

The following sections briefly describe the hydrogeochemical expression of acid drainage in catchments impacted by abandoned mines in Tasmania. Maps 1, 2 and 3 accompanying this report show the statewide status of acid drainage from abandoned mine sites. Local geology, mineral deposit types and geochemistry of the host rocks were used in delineating the geochemical distribution of acid-forming rock types in each catchment area. The geological descriptions of the rock types in each catchment area are from the *Geology and Mineral Resources of Tasmania* (Burrett and Martin, 1989). The

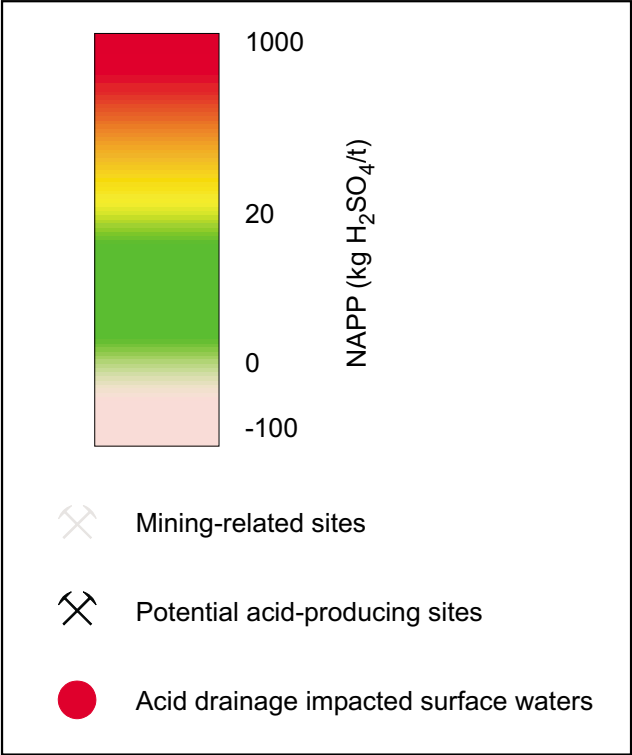


Figure 4

Hydrogeochemical legend for Figures 5 to 12

legend (fig. 4) applies to all the catchment figures in this section.

Arthur River catchment

There are over 100 mineral activity sites in the Arthur River catchment, with ten abandoned mines being identified as acid producers. Most of these acid-producing sites are located in the Mt Balfour and Mt Bischoff areas, which contain dominantly acid-producing rock types (fig. 5). Geochemical classifications show that waste rocks and tailings materials at the Balfour copper mine sites have NAPP values in excess of 300 kg H₂SO₄/t and negligible ANC. Trace elements of concern are Cu (102 500 mg/kg), As (70 mg/kg) and W (160 mg/kg). Cassiterite Creek and Emmetts Creek are the main

Table 6

Catchment-wise inventory of potential acid-producing abandoned mines in Tasmania

<i>Catchment</i>	<i>Mineral activity sites (Status 1-9)#</i>	<i>Mine sites (Status 3-5)#</i>	<i>Potential acid producers</i>	<i>% potential acid producers</i>
Arthur River	103	16	10	9.7
Pieman River	558	133	26	4.7
King River	170	45	11	6.5
Little Henty River	298	111	25	8.4
Ringarooma River	479	212	9	1.9
South Esk River	261	158	9	3.4
King Island	41	5	2	4.9
Flinders Island	15	1	0	0
Tasmania	4036	681	215	5.3

refer Authority tables for MIRLOCH data for status code under MIRLOCH.STA (McClenaghan *et al.*, 1996).

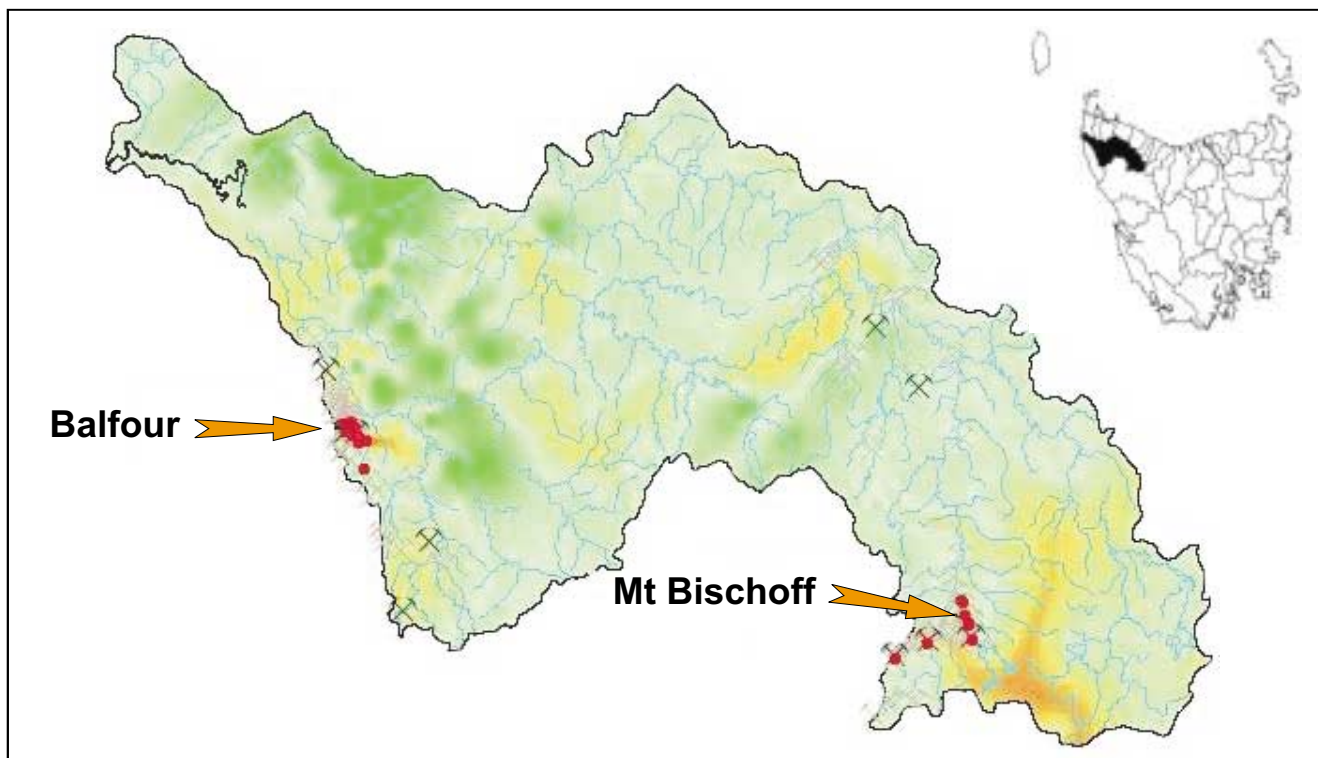


Figure 5

Hydrogeochemical expression of acid drainage in the Arthur River catchment

drainages over the abandoned mine sites. These creeks flow into the Frankland River about two kilometres downstream of the mine area. Surface waters at the mine site (runoff and Cassiterite Creek) are typical of active acid drainage sites, with high acid/high metal/high sulphate waters being affected by high trace metals released from the sulphidic rock materials (Plate 1). Open mine shafts and wetlands containing extremely acid waters and trace metal concentrates pose both physical and environmental hazards at the site (Plate 2).

Acid drainage at the Mt Bischoff tin mine is one of the worst in northwest Tasmania. Continuous discharge of high acid/high metal/high sulphate waters from the main adit has resulted in the accumulation of several thousand tons of oxidised sediments enriched with toxic levels of metals at exposed sites above the headwaters of the Waratah River (Plates 3 and 4). Typical NAPP values of over 450 kg H₂SO₄/t of the mineralised carbonate host rock means that the available ANC of 116 kg H₂SO₄/t is either insufficient or too restricted to neutralise the high amount of acid being generated. High concentrations of Sn (5100 mg/kg), Cu (320 mg/kg), Pb (97 mg/kg) and Zn (89 mg/kg) in the mineralised host rock indicate that these metals can be progressively leached by surface waters that drain into Waratah River and finally to the Arthur River some three kilometres downstream.

Although base flow transportation of metals downstream may have minimal impact, the mass flux of metal-laden mine waste sediments during 50 or 100 year flood events can seriously impact on the ecosystem of the receiving environment.



Plate 1. *Surface runoff of acid drainage at the Balfour copper mine*



Plate 2. Acid drainage in open shaft at the Balfour copper mine



Plate 3. Acid drainage discharge from Mt Bischoff tin mine adit



Plate 4. Acid drainage at Mt Bischoff

Pieman River catchment

The Pieman River catchment contains the highest number of mineral activity sites (558). Over 133 abandoned mines occur in the catchment, most of which fall within the current leases held by the operators of the Rosebery, Renison and Savage River mines. Geochemical classifications show that the rock types hosting many of these mine sites generally have NAPP > 20 kg H₂SO₄/t and insufficient or unavailable ANC for neutralisation of the acid being produced (fig. 6).

Many of the abandoned mines located in the Pieman River catchment have a history of acid drainage pollution problems and as such, have had a major impact on water quality in the area. Downstream environmental impacts on water quality in the Pieman catchment have been reported by Koehnken (1992, 1999) and the direct impacts from mining operations are being monitored by the operating mines in the area (Renison, Rosebery and Savage River). Several abandoned mines in the Rosebery mineral field area have been identified as having acid drainage problems which are seriously impacting on the Ring River, which drains into the Pieman River below the Renison tin mine. Abandoned mines in the area (Jupiter, Koonya, Salisbury, Blacks PA, Burns Tunnel) and the TME sites have been identified as potential acid drainage producers (Dellar, 1998). Several point and diffuse sources of acid drainage, as well as known discharge from the recently closed Hercules mine site (Smith, 1998), may have significant impact on surface and groundwater quality in the catchment.

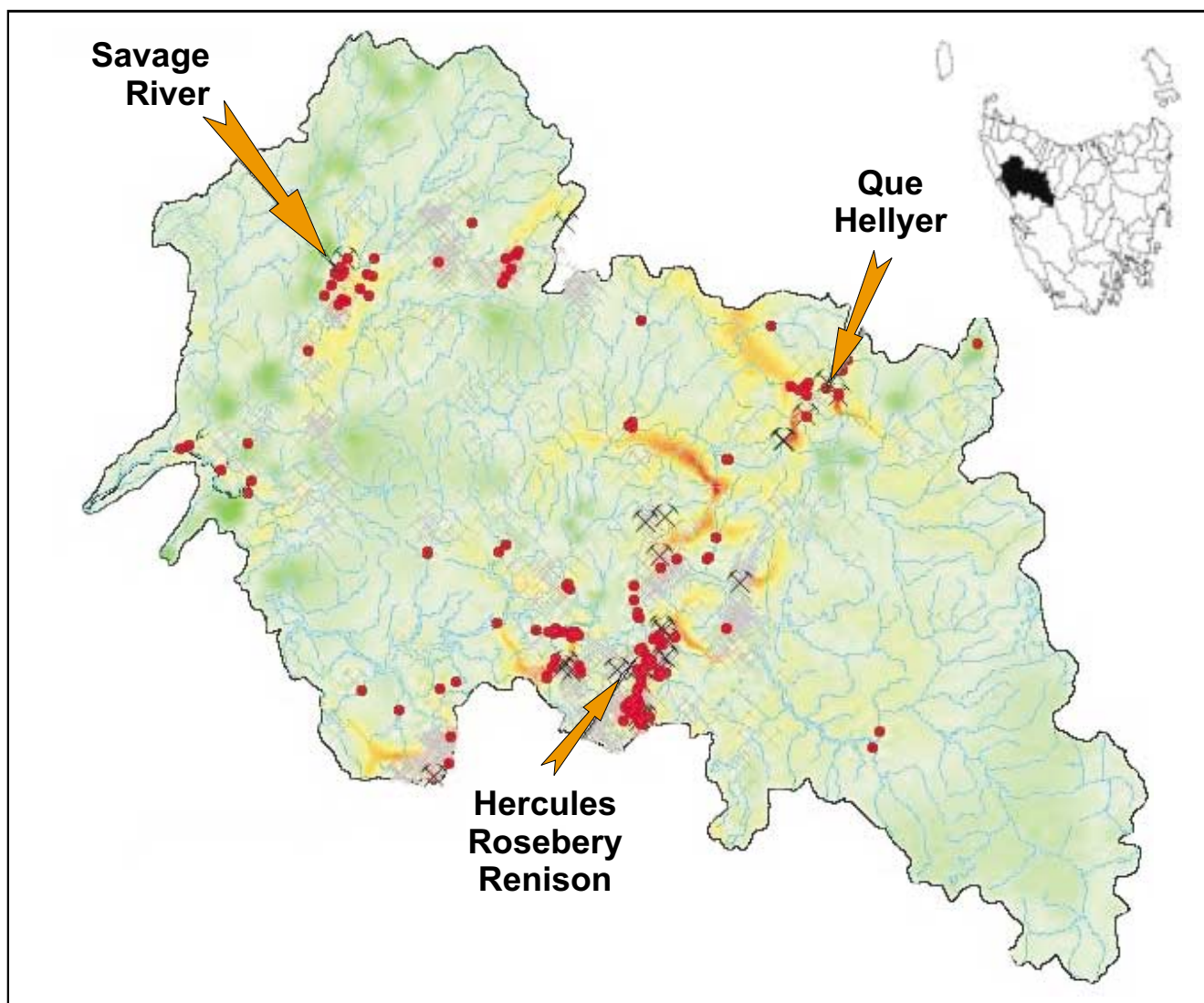


Figure 6
Hydrogeochemical expression of acid drainage in the Pieman River catchment

King River catchment

There are over 170 mineral activity sites in the King River catchment, with 45 abandoned mines having a history of base metal and tin mining in the catchment. Eleven of the mine sites are identified as either potential acid producers or are currently releasing acid drainage. Most of the mine sites are located on the Mt Lyell mineral field which contains dominantly acid-producing volcanic metasediments of the Mount Read Volcanics suite of rocks (fig. 7). Geochemical characterisation shows that exposed host rocks, mine waste and tailings materials have NAPP commonly in excess of 90 kg H₂SO₄/t and negligible ANC at the majority of sites in the Mt Lyell area. Trace elements of concern in the weathered sediments are mainly Cu (>9000 mg/kg) and Zn (~200 mg/kg).

Several reports are available on the environmental impact on water quality from acid drainage at Mt Lyell (Klessa *et al.*, 1997; Koehnken, 1997; Locher, 1997; Miedecke, 1996; Taylor *et al.*, 1996; McQuade *et al.*, 1995; de Blas, 1994). The major streams affected in the catchment are Linda Creek (Plate 5), Queen River and the King River. Numerous runoffs from the exposed Mt Lyell area also carry acid drainage into the Queen River during wet seasons. Various reports have described the acid drainage problem in the Mt Lyell area and the mine sites are still under a currently operating Mining Lease. Figure 7 shows the distribution of potential acid-forming mines located in the catchment.

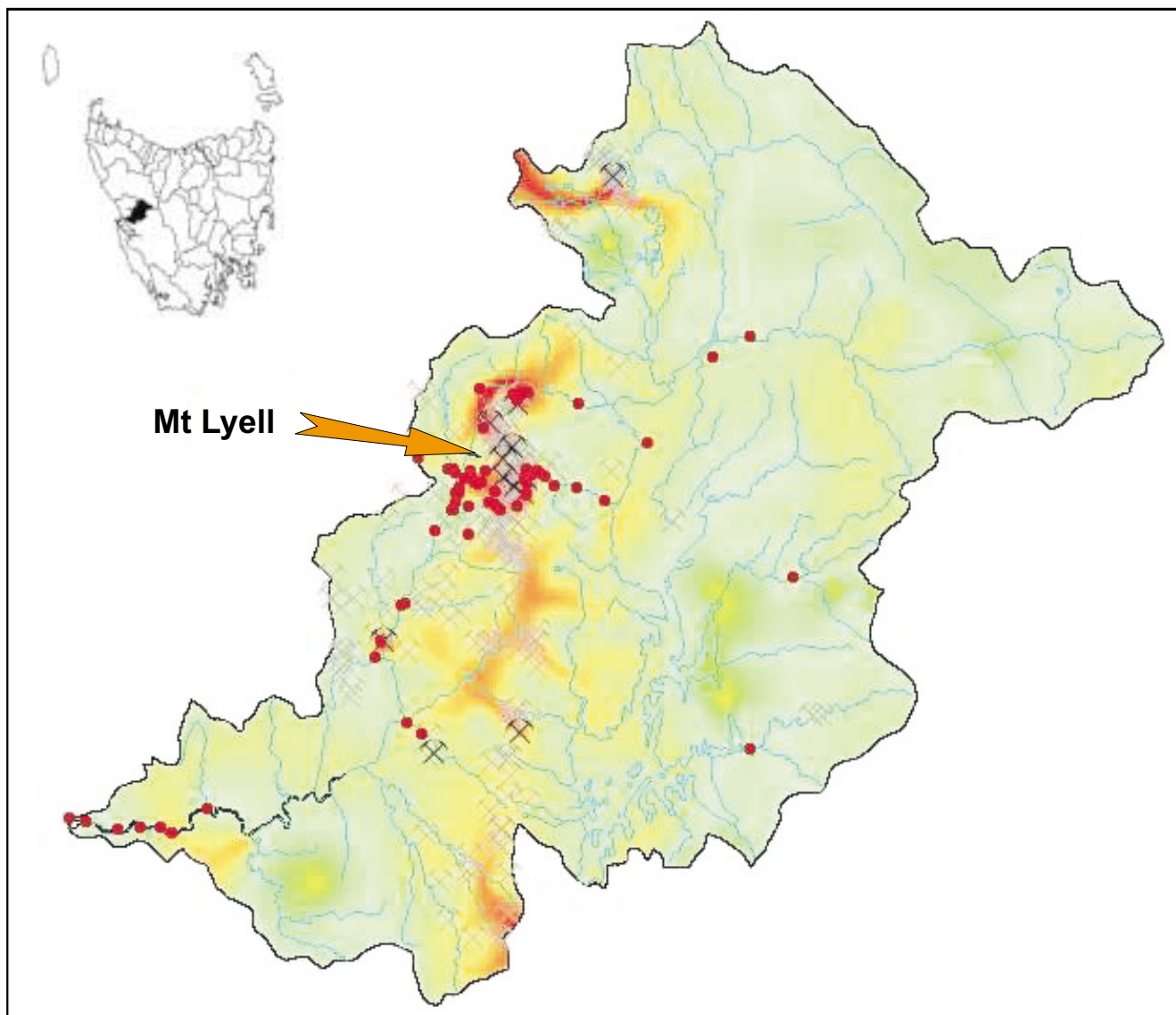


Figure 7
Hydrogeochemical expression of acid drainage in the King River catchment



Plate 5
Acid drainage impacted Linda Creek, Mt Lyell

Little Henty River catchment

The Zeehan mineral field contains the largest concentration of abandoned mine sites in the catchment of the Little Henty River. There are over 111 abandoned mine sites with potential to produce acid. Around 25 mines have been identified as currently producing acid or as having a high incidence of acid drainage at the site. Host rocks and mine waste rock materials associated with abandoned mines in the Zeehan area generally have high NAPP ($>20 \text{ kg H}_2\text{SO}_4/\text{t}$) and trace elements (Pb, Zn and As). The rock types in the area are dominantly pyritic, as indicated by the spatial distribution of acid-forming rocks in the catchment area (fig. 8).



Plate 6

Surface runoff of acid drainage at the Austral tailings site, Zeehan

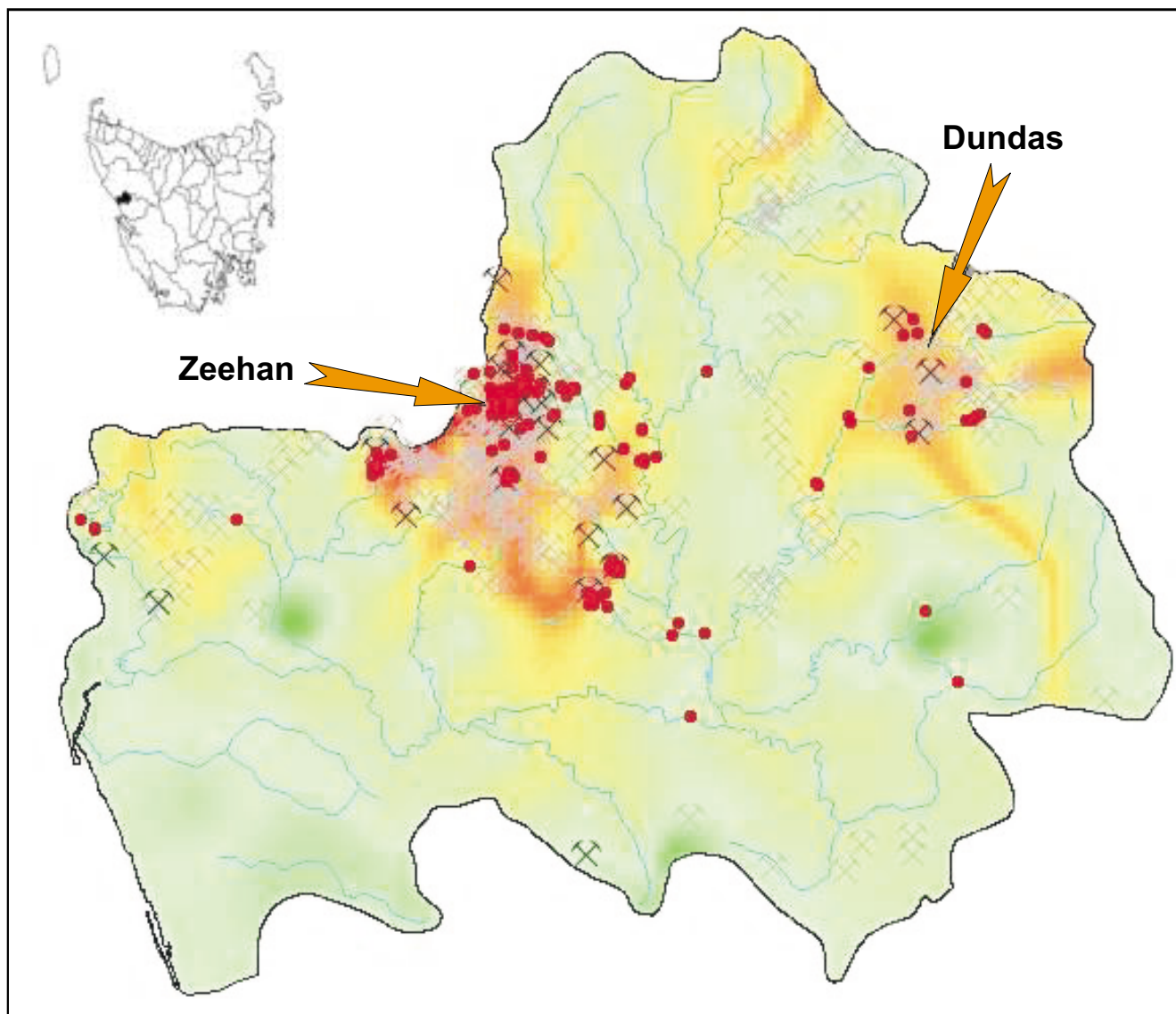


Figure 8

Hydrogeochemical expression of acid drainage in the Little Henty River catchment



Plate 7. *Low pH-high metal wetland sediments near the Florence mine, Zeehan*

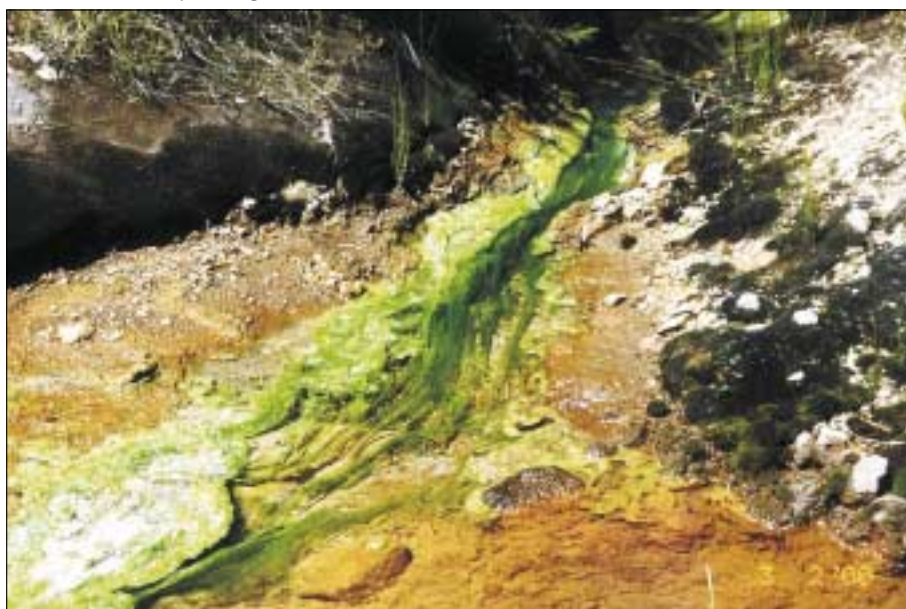


Plate 8. *Acid drainage discharge from Queen Hill adit, Zeehan*



Plate 9. *Acid drainage impacted Zeehan Rivulet*

The underlying Gordon Limestone appears to provide little acid neutralisation, mainly because of its restricted availability for neutralisation and the relatively high NAPP of the ore rocks. Abandoned mine sites such as Queen Hill, Spray, Florence, Oceana and Austral (Plates 6–8) are significant acid producers. Other sites, such as Razorback and Red Lead in the Dundas area, also produce acid drainage with typical high acid-high metal composition. Much of the Zeehan area contains pyritic sediments from past mining activity.

Most surface waters draining the Zeehan mineral field are impacted by acid and metal released from the abandoned sites. Major streams such as Zeehan Rivulet (Plate 9), Silver Lead Creek and Austral Creek are heavily impacted by acid drainage and may carry significant contaminant loading to the Little Henty River during peak flow events. Dominant metal contaminants of concern are Pb and Zn, which also have low adsorption capacity and a greater transport distance over a wide pH range.



Plate 10. Acid drainage discharge from Round Hill adit, Sheffield area



Plate 11. Surface ponding of acid drainage, Endurance tin mine tailings



Plate 12. Acid drainage impacted Ruby Creek, Endurance tin mine

Ringarooma River catchment

The Ringarooma River is a major catchment heavily impacted by tin mining activity in northeast Tasmania. There are over 479 recorded mineral activity sites, with 212 being in the abandoned mines category. Geochemical classification indicates that around nine of these sites are potential acid producers (fig. 9). The main sites currently producing acid drainage are the Endurance, Monarch and Star Hill tin mines. Acid drainage problems at these sites have been investigated and rehabilitation programs are being progressively implemented (Bennett, 1999; de Jong, 1999; SEMF, 1998).

The pyrite in the acid-producing sites is possibly reworked panned concentrates derived from overburden Tertiary sediments buried in granitic tailings. Although the tailings are not acid forming, as indicated by SEMF (1998), pockets of cemented gossans within the tailings have high NAPP (150–200 kg $\text{H}_2\text{SO}_4/\text{t}$) and low paste pH (~ 2.0), indicating active pyrite oxidation below surface. Because of the porous nature of the tailings, oxidation of the buried pyritic sediment may be occurring continuously. The acid generated is continuously being released into Ruby Creek by perched groundwater flow along the hardpan surface. Possible hardpan at depth is indicated by surface ponding during rainfall (Plate 11). Similar conditions may occur at Monarch and the Star Hill tailings.

Ruby Creek and several diffuse seepages from the tailings areas discharge high acid-high metal waters into the Ringarooma River some two kilometres downstream. Most streams in the area are impacted by tin mining tailings.

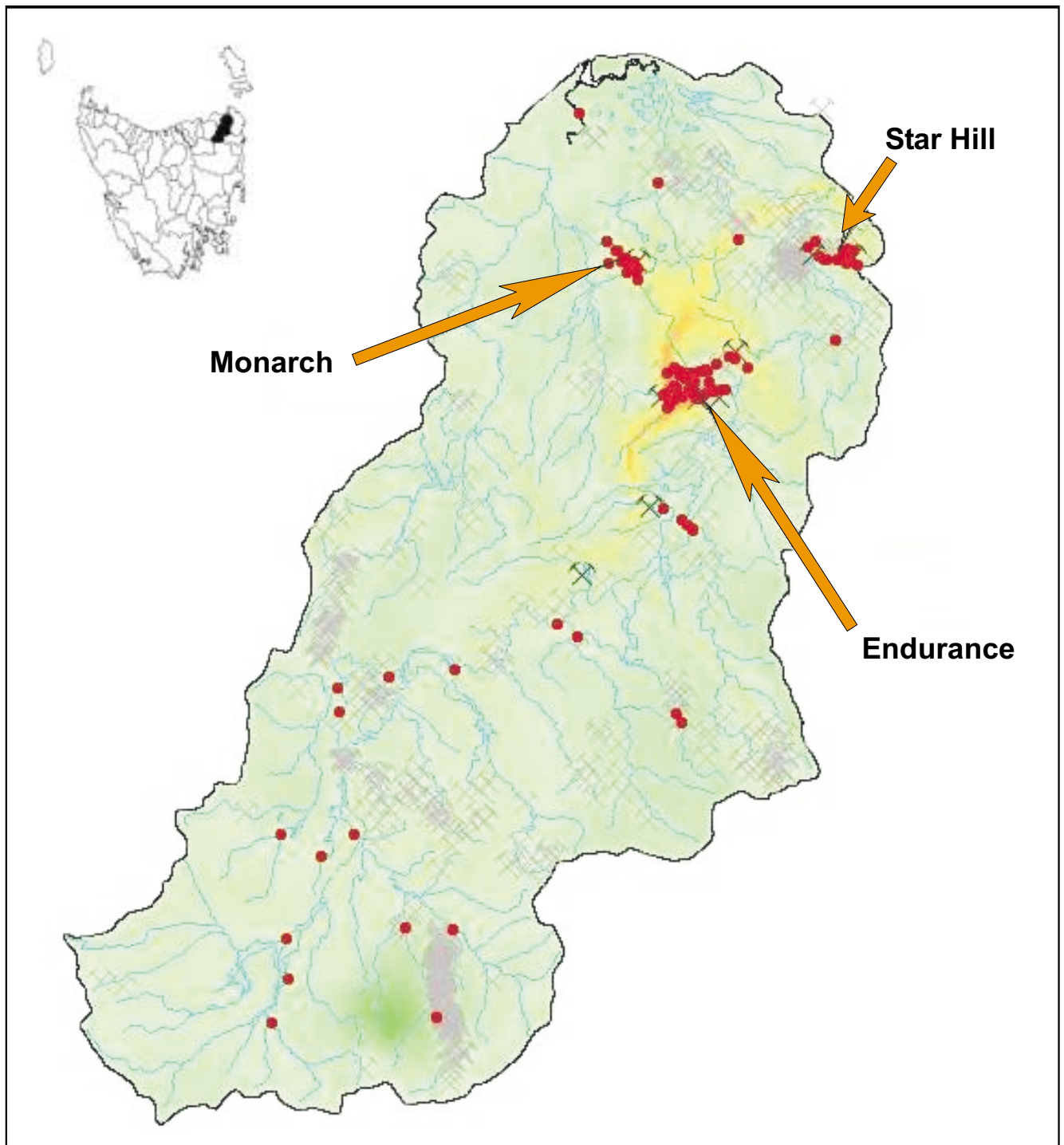


Figure 9
Hydrogeochemical expression of acid drainage in Ringarooma River catchment

South Esk River catchment

Over 261 mineral activity sites are located in the South Esk River catchment, out of which 158 are classed as abandoned mines. Most of the mines are associated with alluvial gold and tin mining in the area. Rock types in the mining areas are predominantly Mathinna suite metasediments consisting of mudstone, slate and quartzite sequences. Geochemical classification shows that rocks proximal to granite intrusions are mineralised with quartz sulphide veins and disseminated sulphides in the slate and mudstone. About nine abandoned mines have rock types that

show positive NAPP (0–20 kg H₂SO₄/t) and are therefore potential acid producers (fig. 10). Although the Mathinna Beds host rocks may be non-acid forming, waste rocks and tailings may be possible acid producers mainly because of pyrite segregation. This may be the case at Storys Creek and is a likely scenario in greisen-vein granite-induced tin-tungsten mineralised rocks in which pyrite may occur as discrete late phase quartz-sulphide veins.

Main contaminants of concern in the surface waters in the catchment are As, Cd, Zn and Sn. The low alkalinity and high bed loading of tailings are

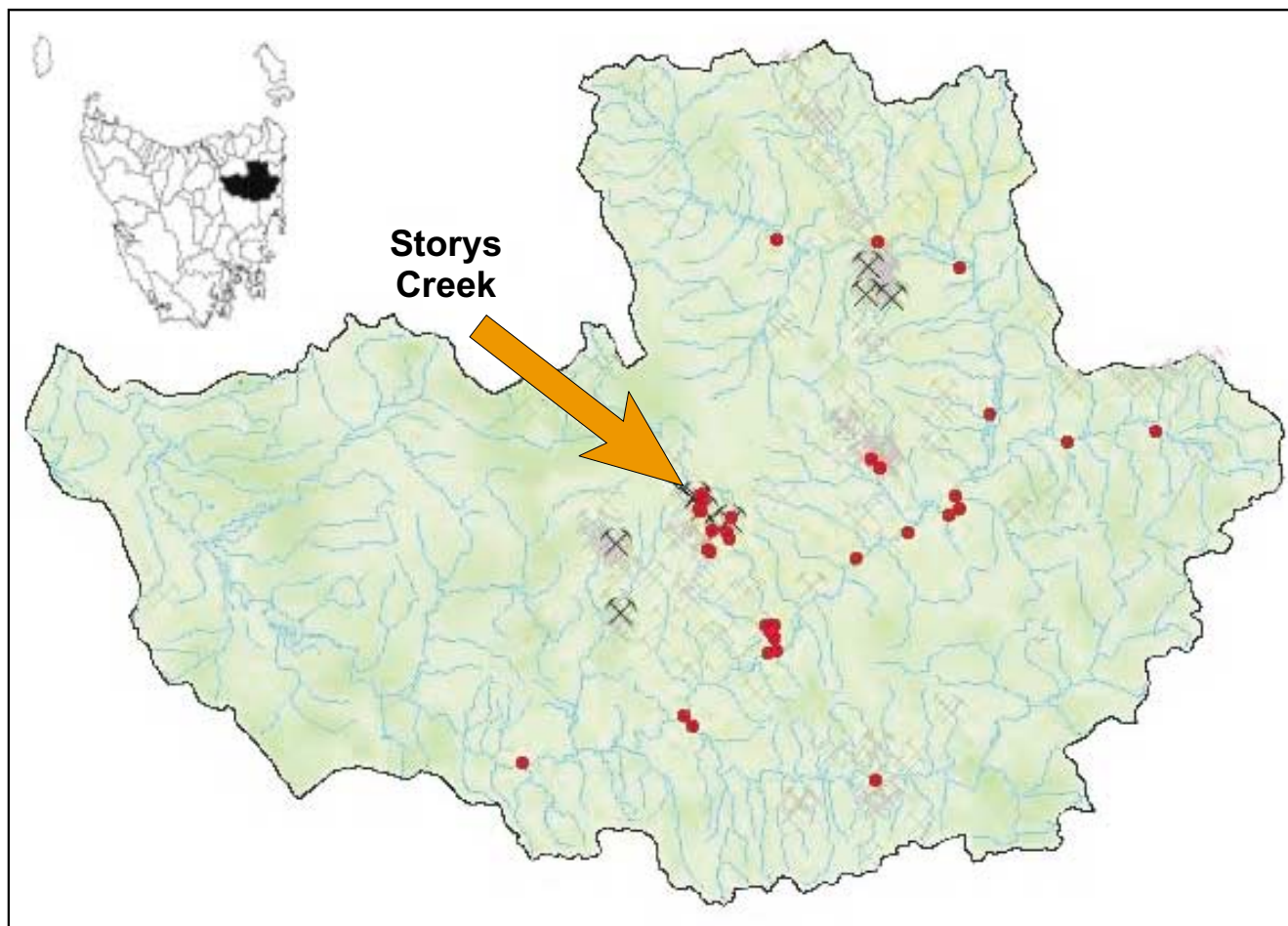


Figure 10
Hydrogeochemical expression of acid drainage in the South Esk River catchment

generally the main factors facilitating mobilisation of metals in the impacted waters. The large quantities of tailings deposited along stream banks may provide a continued source of acid drainage during progressive scouring of the channel bed. Downstream displacement of such materials during major flood events may also pose a serious impact to the aquatic environment. The impact on the South Esk River from such an event at Storys Creek is a likely possibility. Remediation of acid drainage sources in the Storys Creek area is being carried out by Mineral Resources Tasmania (Miedecke, 1998).

King Island

There are over 41 mineral activity sites located on King Island of which five are listed as abandoned mines. The two major mine sites on King Island are the Dolphin and Bold Head scheelite deposits which contain host rock skarn associated with granitic intrusions. The host rocks in these mines have a very low potential for acid forming but tailings and waste rock materials from these mines may contain isolated pockets of pyrite concentrate that are susceptible to oxidation and localised acid seepage. The background geology

indicates that the correlates of the Rocky Cape Group metasedimentary rocks, that roughly cover the southern half of the island, contain sporadic mineralisation with pyrite and pyrrhotite, especially at the contact zones with the granite intrusions. Rock types exposed at these sites are predominantly pyritic metasediments with NAPP of 0–20 kg H₂SO₄/t (fig. 11).

Field expression of acid drainage is evident at a number of localities, notably at the Pearshape and Reekara quarries where pelitic metasedimentary rocks (containing disseminated pyrite) are mined for road metal (roads constructed with aggregates from these quarries are likely acid producers). Surface waters (seepage and ponds) are highly acidic with Al, Cu, Mn and Zn being the main elements of concern. Downstream impact on the Seal River from acid drainage discharge at Pearshape has been studied by Innes (1993). The quarry is now flooded to minimise acid drainage generation and therefore the release of metal contaminants into the Seal River is likely to be minimal. Any metal contaminants during peak flow are likely to be adsorbed by richly organic sediments at Colliers Swamp.

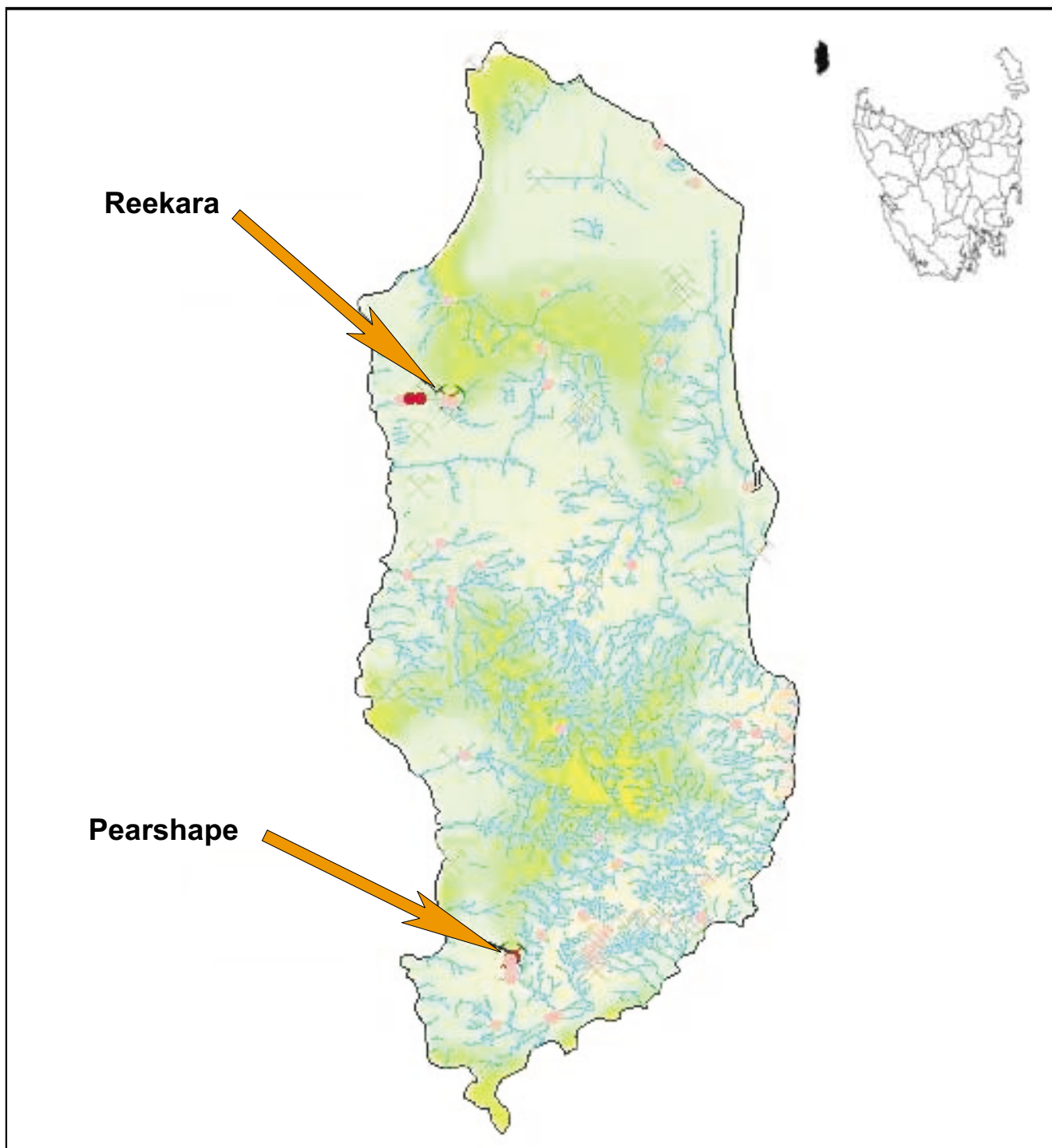


Figure 11
Hydrogeochemical expression of acid drainage on King Island

Flinders Island

Distribution of low potential acid-forming rocks on Flinders Island is limited to small patches of Mathinna Group rocks around Whitemark and the Lady Barron area. Most of Flinders Island consists of Quaternary sediments and intrusive Devonian granitic rocks which are generally non-acid forming types. There are about fifteen small mineral activity sites on Flinders Island but only the abandoned Mt Tanner tin mine site is considered a significant acid producer (fig. 12).

Weathering of isolated quartz-sulphide veins in the granite jig tailings may have been responsible for acidic waters in ponds and in seepages that drain into Mine Creek. The jig tailings at Mt Tanner do not contain any significant trace metal concentrations.

Surface water quality on Flinders Island is not impacted by mining activity except at Mt Tanner and at Officers Creek near Whitemark, where mine waste dumps have had a significant impact on the creek channel beds. General water quality in the major

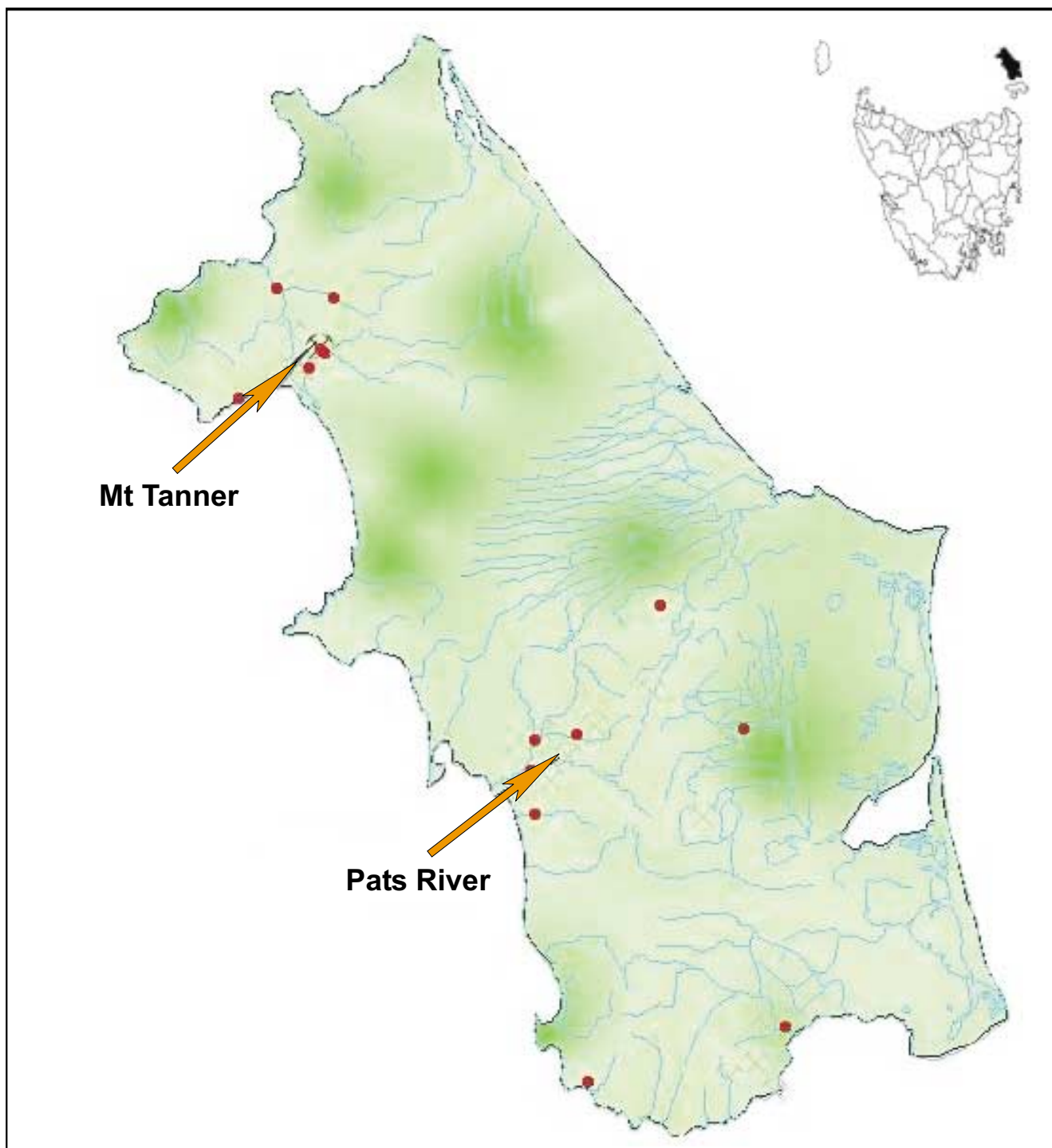


Figure 12
Hydrogeochemical expression of acid drainage on Flinders Island

drainage (Pats River, Samphire River and Patriarch River) is poor and with increasing demand on the island's limited water resources (from increased land use practices) water development and water quantity are likely to be issues of concern. Limited groundwater

data indicate that high Fe and salinity are possible water quality problems affecting the island's groundwater resource.

CONCLUSIONS

Tasmania has over 215 abandoned mine sites that are potential acid producers or are currently producing acid. A majority of these sites also fall within current mining leaseholds. The high incidence of abandoned mines in areas dominated by acid forming rocks indicates that acid drainage is likely to occur in many of these sites.

Abandoned mine impacted waters range from high acid/extreme metal to low acid/low metal. A similar trend was also shown by sulphate distribution. High correlation between metal and sulphate distribution indicates that sulphate may be used as a cost-effective reconnaissance tool for acid drainage assessment.

Surface waters impacted by acid producing abandoned mines generally contain metal pollutants about ten times higher than the ANZECC (1992) values for aquatic environments. Point and diffuse sources of acid drainage are likely to affect environmental base flows in catchments heavily impacted by a base metal mining history.

Low pH/high sulphate/high metal waters are commonly sourced from abandoned mines with high NAPP materials. Carbonate-hosted base-metal mines are generally high acid producers, mainly because of the restricted availability of acid neutralisation from the host rock.

Many base metal abandoned mine sites contain large deposits of reactive waste rocks and tailings that have high concentrations of trace metals. Surface waters from such sites are generally high metal/high sulphate types. Downstream impact from mass loading of these reactive waste rocks and tailings during major flood events is a serious threat to the receiving environment.

Because of the reconnaissance nature of this survey, the information provided in this report and accompanying maps is intended to serve only as a preliminary guide to addressing management and remediation strategies of the acid drainage pollution problems.

RECOMMENDATIONS

Lack of sulphur analyses in the ROCKCHEM database was a major constraint in geochemical characterisation of acid-forming rocks from abandoned mine sites. A routine sulphur analysis in all samples from geological and geochemical investigations will allow quick assessment of the potential acid-forming nature of host rocks in an area.

Hydrochemical assessment of acid drainage requires analysis of specific parameters not always measured in routine water quality analyses carried out for

environmental monitoring of aquatic ecosystems. More extensive surface water and groundwater sampling and analysis needs to be carried out for accurate delineation of catchment areas impacted by acid drainage from abandoned mines.

Site-specific hydrogeochemical characterisation of potential acid-producing abandoned mines needs to be carried out in quantitative assessment of point and diffuse sources of acid drainage and downstream impact from metal contaminant mass loading. Such a characterisation is important in effective implementation of remediation methods.

The impact on water quality from residual pollutants, such as mercury and cyanide, from past ore processing waste materials at many of the abandoned gold mining sites in northeast Tasmania has not been assessed. These deserve independent study in tandem with acid drainage investigations.

The hydrogeochemical data on the inventory of acid-forming abandoned mines is incomplete. Systematic environmental assessments of all the potential and actual acid-producing sites needs to be carried out to enable the selection of priority sites for detailed characterisation and remediation options.

ACKNOWLEDGEMENTS

I would like to thanks the following people for assistance and/or comments on the outcome of this project.

Mineral Resources Tasmania: Wojciech Grun and Carol Bacon (Project Manager, Environment and Land Management); Les Hay and David Shaw (Geochemical Laboratory); all MRT geologists; Ken Bird, Chris Meech and Matthew Tilyard (Data Management); William Shaw and Rohan Sedgman (Computing); Kylie Lau and Michael Dix (Library and Publications); staff of the Finance and Records Sections.

Department of Primary Industries, Water and Environment: Mark Johnson, Greg Hince and Clayton Lovell (Analytical Services Tasmania), David Fuller, Chris Bobbi, Bryce Graham, Kate Berry and Mick Clayton (New Town), Daniel Ray and Jim Lockley (Hobart), Chris Grose and Ron Derosé (Launceston), Rosemary Holness (Ulverstone), David Krushka (Smithton).

Mining Industry: Henry Laszczyk (Renison Bell Limited), Richard Chapman and Graham Hawes (Pasminco Mining, Rosebery), Tony Ferguson (Australian Bulk Minerals, Savage River Mine), Tony Foy (Western Metal Resources Limited, Hellyer Mine).

I would also like to thank Dr Tony Brown (Director, Mineral Resources Tasmania) for facilitating this project.

REFERENCES

- ABM, 1996. *Savage River Mine Development Proposal and Environmental Management Plan*. NSR Environmental Consultants Pty Ltd, Victoria, Australia.
- ABM, 1997. *Environmental Management Plan: Savage River Mine, Port Latta Pelletising Plant, Slurry Pipeline*. Australian Bulk Minerals Tasmanian Operations.
- ALPERS, C. N.; BLOWES, D. W. (ed.). 1994. Environmental geochemistry of sulfide oxidation. *Symposium Series American Chemical Society* 550.
- AMIRA, 1997. AMIRA Project P439 – Studies of VHMS-related alteration: Geochemical and mineralogical vectors to ore. *Report Centre for Ore Deposit Research, University of Tasmania* 4.
- ANZECC, 1992. Australian water quality guidelines for fresh and marine waters. *National Water Quality Management Strategy Paper 4, Australian and New Zealand Environment and Conservation Council, Canberra*.
- BELL, P. 1993. *Historic mine sites in Tasmania. A strategy to identify, assess and manage Tasmania's mining heritage*. [Report to National Parks and Wildlife Division, Department of Primary Industries, Water and Environment Tasmania].
- BENNETT, R. M. 1999. *Rehabilitation of abandoned tin mines in north-eastern Tasmania: Characterisation of vegetation and geochemistry*. B.Sc. (Hons) Thesis, Monash University : Melbourne.
- BRADY, K. B. C.; ROSE, A. W.; CRAVOTTA, C. A.; HELLIER, W. W. 1997. Bimodal distribution of pH in coal mine drainage. *Abstracts with Programs Geological Society of America* 29 (1):32.
- BURRETT, C. F.; MARTIN, E. L. (ed.). 1989. Geology and Mineral Resources of Tasmania. *Special Publication Geological Society of Australia* 15.
- CHILCOTT, S. J.; MAXWELL, H.; DAVIES, P. E. 1991. *A study on the effects of the Hellyer Mine discharges on the aquatic fauna of the Southwell and Que rivers*. Inland Fisheries Commission, Tasmania.
- CMT, 1998. *Revised Environmental Management Plan. Volumes 1 and 2*. Copper Mines of Tasmania Limited.
- CROCK, J. G.; ARBOGAST, B. F.; LAMOTHE, P. J. 1999. Laboratory methods for the analysis of environmental samples, in: PLUMLEE, G. S.; LOGSDON, M. J. (ed.). *The environmental geochemistry of mineral deposits. Part A: Processes, techniques, and health issues. Reviews in Economic Geology* 6A:265–287.
- DE BLAS, A. 1994. *The environmental effects of Mount Lyell operations on Macquarie Harbour and Strahan*. Australian Centre for Independent Journalism, University of Technology, Sydney.
- DE JONG, J. M. 1999. *The environmental impact of mine tailings, Endurance tin mine, north-eastern Tasmania*. B.Sc. (Hons) Thesis, Monash University : Melbourne.
- DELLAR, M. J. 1998. *Acid mine drainage in the Rosebery Mineral Field, western Tasmania*. B.Sc. (Hons) Thesis, University of Tasmania : Hobart.
- EGI, 1996. *Geochemistry and acid forming potential of ore and waste rock in proposed mine extension, Australian Bulk Minerals Savage River Project*. Environmental Geochemistry International Pty Ltd.
- ESPL, 1999. *Remediation investigations and pilot works in the Zeehan mineral field*. Earth Systems Pty Ltd.
- EVANGELOU, V. P.; ZHANG, Y. L. 1995. A review: Pyrite oxidation mechanisms and acid mine drainage prevention. *Environmental Science and Technology* 25 (2):141–199.
- FERGUSON, K. D.; ERICKSON, P. M. 1988. Pre-mine prediction of acid mine drainage, in: SALOMON, W.; FÖRSTNER, U. (ed.). *Environmental management of solid waste: Dredged material and mine tailings*. 24–43. Springer-Verlag : New York.
- FICKLIN, W. H.; MOSIER, E. L. 1999. Field methods for sampling and analysis of environmental samples for unstable and selected stable constituents, in: PLUMLEE, G. S.; LOGSDON, M. J. (ed.). *The environmental geochemistry of mineral deposits. Part A: Processes, techniques, and health issues. Reviews in Economic Geology* 6A:249–264.
- FICKLIN, W. H.; PLUMLEE, G. S.; SMITH, K. S.; MCHUGH, J. B. 1992. Geochemical classification of mine drainages and natural drainages in mineralized areas, in: KHARAKA, Y. K.; MAEST, A. S. (ed.). *Proceedings 7th International Symposium on water-rock interactions* 381–384.
- HARRIES, J. 1997. Acid mine drainage in Australia – Its extent and potential liability. *Supervising Scientist Report 125, Supervising Scientist, Canberra*.
- HART, B. T. 1982. *Australian water quality criteria for heavy metals*. Australian Government Publication Service : Canberra.
- HGM, 1997. *Henty Gold Mine Environmental Management Plan*. NSR Environmental Consultants Pty Ltd.
- HUTCHINSON, M. F. 1989. A new procedure for gridding elevation and stream line data with automatic removal of spurious pits. *Journal of Hydrology* 106:211–232.
- INNES, S. M. 1993. *Acid rock drainage at Pearshape quarry, King Island: Causes and remediation options*. B.Sc. (Hons) thesis, University of Tasmania : Hobart.
- KLESSA, D. A.; KOEHNKEN, L.; JOHNSTON, J. F. 1997. Mount Lyell remediation. Estimation of water quality over time within the Queen and King Rivers. *Supervising Scientist Report 121, Supervising Scientist, Canberra*.
- KOEHNKEN, L. 1992. *Pieman River Environmental Monitoring Programme: technical report*. [unpublished].
- KOEHNKEN, L. 1997. Final report. Mount Lyell Remediation, Research and Demonstration Program. *Supervising Scientist Report 126, Supervising Scientist, Canberra*.
- KOEHNKEN, L., 1999. *Pieman monitoring: A review of the 1990s*. Technical advice on water to Pieman Catchment Monitoring Group [unpublished].
- LADIGES, S. 1995. *Heavy metal levels in stream waters, vegetation, soil and soil solutions in an evolving wetland, Zeehan, Tasmania*. B.Sc. (Hons) Thesis, University of Tasmania : Hobart.

- LANE, D. 1998. *Renison Bell Limited Environmental Management Plan: Ambient monitoring results 1997/98*. [Unpublished].
- LASZCZYK, H.; LANE, D. 1997. *Renison Bell Limited Environmental Management Plan: Ambient monitoring results 1996/97*. [Unpublished].
- LAWRENCE, J. S. 1996. *Environmental geology of the Dundas drainage basin*. B.Sc. (Hons.) Thesis, University of Tasmania : Hobart.
- LOCHER, H., 1997. Mount Lyell Remediation. Sediment transport in the King River, Tasmania. *Supervising Scientist Report 120, Supervising Scientist, Canberra*.
- MCCLENAGHAN, M. P.; BOTTRILL, R. S.; BIRD, K. G. 1997. Structure of GIS databases (Revision 1). *Record Tasmanian Geological Survey 1996/06*.
- MCKEOWN, M. V. 1999. *Development Proposal and Environmental Management Plan – Pearshape Quarry. Report for King Island Council. Pearshape quarry development and rehabilitation, July 1999*. McKeown Mining Pty Ltd.
- MCQUADE, C. V.; JOHNSTON, J. F.; INNES, S. M. 1995. Mount Lyell remediation. Review of historical literature and data on the sources and quality of effluent from the Mount Lyell lease site. *Supervising Scientist Report 104, Supervising Scientist, Canberra*.
- MIEDECKE, J. 1996. Mount Lyell remediation: Remedial options to reduce acid drainage from historical mining operations at Mount Lyell, Western Tasmania. *Supervising Scientist Report 108, Supervising Scientist, Canberra*.
- MIEDECKE, J. 1998. *Storrs Creek/Rossarden acid drainage remediation study. Preliminary Report*. John Miedecke and Partners Pty Ltd.
- MIEDECKE, J. 1991. *King Island Scheelite rehabilitation plan*. John Miedecke and Partners Pty Ltd.
- NORDSTROM, D. K. 1982. Aqueous pyrite oxidation and the consequent formation of secondary iron minerals, in: KITTRICK, J. A.; FANNING, D. S.; HOSSNER, L. R. (ed.). *Acid sulfate weathering. Special Publication Soil Science Society America 10:37–56*.
- OOSTING, N. L. 1998. *Rehabilitation of abandoned mine sites in the Zeehan area*. B.Sc. (Hons) Thesis, University of Tasmania : Hobart.
- PARKER, G. K.; ROBERTSON, J. D. 1999. Acid Drainage. Part One – A critical review of acid generation from sulfide oxidation: Processes, treatment and control. Part Two – An investigation of strategies used overseas for the environmental management of sulfidic mine wastes. *Occasional Paper Australian Minerals and Energy Environment Foundation 11*.
- PARR, T. 1997. *Acid mine drainage in the Zeehan District*. B.Sc. (Hons) Thesis, University of Tasmania : Hobart.
- PRM, 1996. *Environmental improvement program for the Hercules mine*. Pasminco Rosebery Mine.
- PRM, 1998. *Draft environmental improvement program for the Hercules mine, Williamsford, Tasmania*. Pasminco Rosebery Mine.
- RAYMENT, G. E.; HIGGINSON, F. R. 1994. *Australian laboratory handbook of soil and water chemical methods*. Inkata Press : Melbourne, Sydney.
- RENISON, 1995. *Environmental Management Plan*. NSR Environmental Consultants Pty Ltd.
- SEMF, 1998. *Final reviews report on the environmental improvement program. Pasminco Rosebery mine. EPI Final reviews report, June 1996. Hercules mine site, Williamsford*. SEMF Holdings Pty Ltd.
- SEMF, 1998. *The rehabilitation of abandoned tin mines in north eastern Tasmania*. SEMF Holdings Pty Ltd.
- SMITH, S. E. 1998. *Acid mine drainage in the Bakers Creek waste rock dump, Hercules, western Tasmania*. B.Sc. (Hons) Thesis, University of Tasmania : Hobart.
- SOBEK, A. A.; SCHULLER, W. A.; FREEMAN, J. R.; SMITH, R. M. 1978. Field and laboratory methods applicable to overburden and mine soils. EPA 600/2-78-054.
- TAYLOR, J. R.; WEAVER, T. R. MCPHAIL, D. C.; MURPHY, N. C. 1996. Mount Lyell remediation. Characterisation and impact assessment of mine tailings in the King River system and delta, western Tasmania. *Supervising Scientist Report 105, Supervising Scientist, Canberra*.
- TAYLOR, K. 1998. *Hydrogeology and geochemistry of slag and tailings wastes at the Tasmanian Smelting Company site Zeehan*. B.Sc. (Hons) Thesis, University of Tasmania : Hobart.
- WHITE, W. W.; LAPAKKO, K. A.; COX, R. L. 1999. Static-test methods most commonly used to predict acid mine drainage: Practical guidelines for use and interpretation,, in: PLUMLEE, G. S.; LOGSDON, M. J. (ed.). *The environmental geochemistry of mineral deposits. Part A: Processes, techniques, and health issues. Reviews in Economic Geology 6A:325–338*.
- WMRL, 1999. *Environmental Management Plan (Hellyer Mine). 9th Annual and Third Three Year Consolidated Report to The Minister for Environment*. Western Metal Resources Limited, Hellyer Operations.
- WMRL, 2000. *Environmental Decommissioning and Rehabilitation Plan (Hellyer Mine)*. Western Metal Resources Limited.

[30 April 2002]

Appendix 1

Inventory of acid-producing abandoned mines in Tasmania

Explanations

REF_NO	Mirloch reference number to deposits
AMGE	Australian Magnetic Grid Easting
AMGN	Australian Magnetic Grid Northing
STATUS	Status of the mines: ABM_RU = Abandoned mine, reserves unknown ABM_RK = Abandoned mine, reserves known ABM_MO = Abandoned mine, mined out OPM = Operating mine
MAJ_COM	Major commodity
MIN_COM	Minor commodity
HOST	Host rock type
FORM	Form of occurrence of minerals
SIZE	Size of the deposit
DIST_NAPP	Nearest radial distance of potential acid producing rocks from the mine
TOS	Total sulphur
MPA	Maximum potential acidity
ANC	Acid neutralising capacity
NAPP	Net acid producing potential
GCLASS	Geochemical classification of rock types 1 = Non-acid forming rocks (NFR) 2= Potential acid forming rocks (PAFR) 3 = Acid forming rocks (AFR)

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
48068	Abbotsford Creek	572600	5388400	ABM_RU	Au		Mathinna_Beds	Vein	0	9302.150	0.15	4.59	3.94	0.65	2	Mirloch
50070	Abels Workings	370850	5369290	ABM_RU	Sn		Camb_Sed_Seq	Vein	0	931.580	0.60	18.36	9.80	8.56	2	Tasgeol
24020	Aberfoyle A	579400	5469300	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	646.484	0.01	0.31	2.15	-1.84	1	Tasgeol
24055	Aberfoyle B	579800	5469100	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	996.394	0.15	4.59	12.63	-8.04	1	Tasgeol
24058	Aberroie	579500	5468800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	729.433	0.15	4.59	12.63	-8.04	1	Tasgeol
50025	Adelaide Pty	369650	5361750	ABM_RU	Pb-Ag-Zn	Crocoite	Camb_Ig_Seq	Vein/Repl	2	628.013	5.00	153.00	30.60	122.40	3	Mirloch
31076	Adjutant	500200	5448200	ABM_RU	Au		Mathinna_Beds	Vein	0	673.374	0.20	6.12	3.72	2.40	2	Tasgeol
30001	Admiral	498200	5448500	ABM_RU	Au		Mathinna_Beds	Vein	0	914.410	0.01	0.31	0.64	-0.33	1	Tasgeol
31001	Alacrity	524500	5445600	ABM_RU	Au		Mathinna_Beds	Vein	0	4325.348	0.10	3.06	9.70	-6.64	1	Tasgeol
51127	Albert Midson's	384000	5372680	ABM_RU	Cu-Ag	Au-Pb-Zn	MRV	Vein	0	846.463	5.00	153.00	30.60	122.40	3	Mirloch
31002	All Nations	505050	5454800	ABM_RU	Au		Mathinna_Beds	Vein	0	403.113	0.33	10.10	8.60	1.50	2	Mirloch
37018	All Nations Alluvial	424330	5406120	ABM_RU	W	Sn Bi	Jur_Cen_Seq	Placer	2	41.437	0.10	3.06	-4.90	7.96	2	Gurung
37017	Lady Barron	424380	5406040	ABM_RK	W-Bi	Ag Au SnMo	MRV	Vein/Stock	3	0.000	0.15	4.59	1.67	2.92	2	Mirloch
24001	Alliance	551050	5468780	ABM_RU	Au		Mathinna_Beds	Vein	0	2169.591	0.01	0.31	5.00	-4.69	1	Tasgeol
50129	Allison	348800	5360390	ABM_RU	Sn		Dev_Granitoid	Vein/Resid	0	2139.276	0.10	3.06	5.49	-2.43	1	Gurung
40061	Almora	566600	5429150	ABM_RU	Au		Mathinna_Beds	Vein	0	13187.642	0.39	11.93	18.77	-6.84	1	Tasgeol
48053	Alpine	571650	5395870	ABM_RU	Au		Mathinna_Beds	Vein	0	1866.265	0.16	4.90	6.26	-1.36	1	Tasgeol
33009	Amber Hill	586100	5460200	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1695.560	0.15	4.59	12.63	-8.04	1	Tasgeol
50159	Amy Creek	342160	5365720	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4132.237	1.00	30.60	28.36	2.24	2	Tasgeol
33001	Anchor	584800	5435300	ABM_RU	Sn	Cu-W	Dev_Granitoid	Disseminated	0	144.586	0.10	3.06	18.62	-15.56	1	Gurung
32101	Arba	563100	5442600	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	481.096	0.39	11.93	18.77	-6.84	1	Tasgeol
32224	Arba (South)	563400	5442400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	649.407	0.15	4.59	12.63	-8.04	1	Tasgeol
25053	Arcadia	588200	5460800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	938.830	0.01	0.31	2.15	-1.84	1	Tasgeol
50326	Argent No. 1	360950	5361160	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50232	Argent No. 2	360320	5360950	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	122.066	5.00	153.00	30.60	122.40	3	Mirloch
50327	Argent No. 3	360620	5360980	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50328	Argent No. 4	360370	5361270	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	18.000	13.20	403.92	0.98	402.94	3	Gurung
50233	Argent No. 5	360730	5360930	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	120.830	5.00	153.00	30.60	122.40	3	Mirloch
50235	Argent No. 6	361100	5360890	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50400	Argent No. 7	360220	5360880	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
48065	Argyle	574940	5392750	ABM_RU	Au		Mathinna_Beds	Vein	0	5785.334	0.16	4.90	6.26	-1.36	1	Tasgeol
50248	Austral	362190	5358740	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50348	Austral Fe Flux Q	360960	5360230	ABM_RU	Fe		Gordon_Lst	Disseminated	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
30002	Australasian	498780	5449530	ABM_RU	Au		Mathinna_Beds	Vein	0	361.089	0.01	0.31	0.64	-0.33	1	Tasgeol
32057	Australian	583400	5437500	ABM_RU	Sn	W-Cu	Dev_Granitoid	Vein/Dissem	0	0.000	0.37	11.32	8.74	2.58	2	Mirloch
40040	Baileys	570200	5416250	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	9504.867	0.15	4.59	1.59	3.00	2	Mirloch
55027	Baileys Lode E	573950	5367325	ABM_RU	Sn		Dev_Granitoid	Vein/Dissem	0	454.280	0.10	3.06	3.32	-0.26	1	Tasgeol
55026	Baileys Lode W	573675	5367400	ABM_RU	Sn		Dev_Granitoid	Vein/Dissem	0	514.898	0.10	3.06	3.32	-0.26	1	Tasgeol
30003	Bain & Richards	498680	5449690	ABM_RU	Au		Mathinna_Beds	Vein	0	385.623	0.01	0.31	0.64	-0.33	1	Tasgeol
32100	Bakers Discovery	562400	5437100	ABM_RU	Sn		Mathinna_Beds	Vein	0	6015.085	0.39	11.93	18.77	-6.84	1	Tasgeol
32027	Bald Hill	572250	5434800	ABM_RU	Sn		Dev_Granitoid	Vein	0	5404.266	0.39	11.93	18.77	-6.84	1	Tasgeol
30104	Ballarat	484250	5438800	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	166.973	0.01	0.31	2.36	-2.05	1	Tasgeol
32134	Banca	568200	5457800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	7472.727	0.10	3.06	16.87	-13.81	1	Tasgeol
30004	Bannock	499330	5448390	ABM_RU	Au		Mathinna_Beds	Vein	0	305.766	0.20	6.12	3.72	2.40	2	Tasgeol
50283	Barnetts	359200	5363720	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	1084.576	0.31	9.49	7.48	2.01	2	Tasgeol
37043	Barrington Or Alma	436400	5427850	ABM_RU	Cu	Ba-Py	Camb_Sed_Seq	Vein/Dissem	0	17352.430	0.84	25.70	17.24	8.46	2	Tasgeol
40052	Battery	567200	5430200	ABM_RU	Au		Mathinna_Beds	Vein	0	11988.169	0.39	11.93	18.77	-6.84	1	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
43004	Batty's Adit	349730	5402160	ABM_RU	Au		Precamb_Seq	Vein	0	5381.868	5.00	153.00	30.60	122.40	3	Mirloch
30134	Beaconsfield Deep Lead	484500	5439000	ABM_RU	Au		Jur_Cen_Seq	Placer	0	349.543	0.01	0.31	2.36	-2.05	1	Tasgeol
40077	Beckers	567400	5426800	ABM_RU	Au		Mathinna_Beds	Vein	0	14735.596	0.39	11.93	18.77	-6.84	1	Tasgeol
48029	Bedelphs Alluvial	560000	5390000	ABM_MO	Sn		Jur_Cen_Seq	Placer	0	340.906	0.16	4.90	1.26	3.64	2	Tasgeol
48030	Bedelphs No.2 Alluvial	560000	5390000	ABM_MO	Sn		Jur_Cen_Seq	Placer	0	340.906	0.16	4.90	1.26	3.64	2	Tasgeol
37007	Bell Mount Alluvial	423300	5408400	ABM_RU	Au		Jur_Cen_Seq	Placer	0	192.585	0.01	0.31	2.15	-1.84	1	Tasgeol
32030	Bells Hill	569100	5436600	ABM_RU	Sn		Dev_Granitoid	Vein	0	6224.419	0.39	11.93	18.77	-6.84	1	Tasgeol
24016	Beltz	580600	5470400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1821.214	0.07	2.14	20.58	-18.44	1	Tasgeol
48013	Ben Lomond Tin	555000	5386200	ABM_RU	Sn		Dev_Granitoid	Vein	0	544.693	0.16	4.90	1.26	3.64	2	Tasgeol
48014	Ben Lomond Tungsten	553100	5387400	ABM_RU	W		Dev_Granitoid	Vein	2	433.260	0.01	0.31	3.26	-2.95	1	Tasgeol
30005	Bendigo	498360	5450280	ABM_RU	Au		Mathinna_Beds	Vein	0	905.685	0.01	0.31	0.64	-0.33	1	Tasgeol
51090	Berry Consols	379600	5371700	ABM_RU	Cu	Ag-Au	MRV	Vein	0	353.553	1.54	47.12	30.31	16.81	2	Rockchem
31004	Bessells Reward	526440	5439700	ABM_RU	Au		Mathinna_Beds	Vein	0	1881.938	0.10	3.06	9.70	-6.64	1	Tasgeol
41013	Beulah	604100	5410100	ABM_RU	Ag-Pb	Cu-AuZnAs	Dev_Granitoid	Vein	0	499.064	0.10	3.06	9.70	-6.64	1	Tasgeol
50281	Big Ben	359420	5364850	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	311.873	0.31	9.49	7.48	2.01	2	Tasgeol
25009	Big Musselroe	591300	5473500	ABM_RU	Au	Ag-Pb-As	Mathinna_Beds	Vein	0	2616.306	0.01	0.31	2.15	-1.84	1	Tasgeol
65309	Bird River	384450	5312800	ABM_RU	Fe	HEM		Vein	0	6645.349	0.67	20.50	8.11	12.39	2	Tasgeol
52004	Birthday	420100	5375700	ABM_RU	W-Mo-Sn	Cu-As	Dev_Granitoid	Vein	0	391.215	0.10	3.06	1.31	1.75	2	Tasgeol
32221	Black Creek	563900	5442750	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	503.120	0.15	4.59	12.63	-8.04	1	Tasgeol
32223	Black Creek (North)	563900	5444500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	304.138	0.39	11.93	18.77	-6.84	1	Tasgeol
24022	Black Duck	580850	5468550	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	240.875	0.01	0.31	2.15	-1.84	1	Tasgeol
88002	Black Jack Ridge	502950	5217500	ABM_RU	Au-Ag-	As Cu Zn	Dev_Granitoid	Stock/Dissem	0	375.023	0.18	5.51	5.63	-0.12	1	Tasgeol
31005	Blackmans	505100	5454800	ABM_RU	Au		Jur_Cen_Seq	Placer	0	412.311	0.33	10.10	8.60	1.50	2	Mirloch
58178	Blacks	383500	5342850	ABM_RU	Cu		MRV	Vein	0	414.693	0.22	6.73	12.67	-5.94	1	Tasgeol
36001	Blacks Lea River	414850	5405270	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein/Placer	0	310.247	0.42	12.85	4.81	8.04	2	Tasgeol
37078	Blacks Lode	426200	5406560	ABM_RU	W		Owen_Cong/Moina_Sst	Vein	0	904.899	0.10	3.06	3.78	-0.72	1	Tasgeol
37079	Blacks Lower Shaft	426250	5406670	ABM_RU	W	Mo	Owen_Cong/Moina_Sst	Vein	0	983.647	0.10	3.06	3.78	-0.72	1	Tasgeol
51123	Blacks No. 1 Shaft	378770	5372670	ABM_RU	Cu	Au-Ag	MRV	Vein	0	528.867	0.25	7.65	7.58	0.07	2	Rockchem
50055	Block 291 Mine	373880	5366130	ABM_RU	Pb-Ag-Sb	Bi-As-Zn	Camb_Sed_Seq	Vein	0	937.230	5.00	153.00	30.60	122.40	3	Mirloch
50041	Block 302, Block 291	373660	5366690	ABM_RK	Pb-Sb-Ag	Cu-Bi-As-Au	Camb_Ig_Seq	Vein	0	501.597	5.00	153.00	30.60	122.40	3	Mirloch
25001	Blue Bell	589060	5473720	ABM_RU	Au	As-Pb-Zn	Mathinna_Beds	Vein	0	457.139	0.01	0.31	2.15	-1.84	1	Tasgeol
36026	Bobs Bonanza	397700	5425750	ABM_RU	W-Fe	Mag	Gordon_Lst	Replacement	0	366.442	0.10	3.06	5.62	-2.56	1	Tasgeol
40057	Bodyline	566880	5429690	ABM_RU	Au		Mathinna_Beds	Vein	0	12587.777	0.39	11.93	18.77	-6.84	1	Tasgeol
10003	Bold Head Ob	249500	5564500	ABM_RK	W-Mo	Mo	Camb_Sed_Seq	Strat/Dissem	4	2457.282	0.08	2.45	38.22	-35.77	1	Rockchem
50203	Bon Accord	366650	5373980	ABM_RU	Pb		Camb_Sed_Seq	Vein	0	2966.902	0.10	3.06	3.78	-0.72	1	Tasgeol
30088	Bonanza; Corio	484100	5438500	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	316.228	1.50	45.90	30.60	15.30	2	Mirloch
50085	Bonnie Dundee	373720	5367750	ABM_RU	Ag-Cu	Sb-As	Camb_Sed_Seq	Vein	1	550.000	5.00	153.00	30.60	122.40	3	Mirloch
24045	Boomerang	578900	5468500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	365.613	0.15	4.59	12.63	-8.04	1	Tasgeol
32195	Boon	573200	5446800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	3528.767	0.39	11.93	18.77	-6.84	1	Tasgeol
50267	Boss	357950	5360330	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	550.818	28.40	869.04	1.37	867.67	3	Gurung
50300	Bradshaws	359720	5362270	ABM_RU	Sn-Cu		Precamb_Seq	Vein	0	251.794	0.22	6.73	2.60	4.13	3	Mirloch
24068	Braithwaites	580000	5472200	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2504.240	0.07	2.14	20.58	-18.44	1	Tasgeol
30154	Brandy Creek	483500	5444000	ABM_RU	Fe		Jur_Cen_Seq	Residual	0	4848.208	1.71	52.33	32.34	19.99	2	Tasgeol
30078	Brandy Creek (New)	483300	5439700	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	546.190	1.71	52.33	32.34	19.99	2	Tasgeol
30079	Brandy Creek (Old)	483200	5439700	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	540.300	1.71	52.33	32.34	19.99	2	Tasgeol
32222	Branxholm Creek	563300	5444200	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	460.977	0.39	11.93	18.77	-6.84	1	Tasgeol
25056	Bridge	585700	5466400	ABM_RU	Sn		Jur_Cen_Seq	Disseminated	0	102.303	0.15	4.59	12.63	-8.04	1	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
50157	Bridge Creek Alluvial	352930	5358120	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1062.691	0.10	3.06	-0.98	4.04	2	Gurung
31077	Brigadier	500800	5448700	ABM_RU	Au		Mathinna_Beds	Vein	0	502.410	0.10	3.06	0.15	2.91	2	Tasgeol
40045	Bright Star	571750	5412400	ABM_RU	Au-Ag	Ag	Mathinna_Beds	Vein	0	5360.271	0.15	4.59	1.59	3.00	2	Mirloch
40080	Bright Star	567150	5425050	ABM_RU	Au		Mathinna_Beds	Vein	0	16402.006	0.39	11.93	18.77	-6.84	1	Tasgeol
41001	Brilliant Creek	585840	5415400	ABM_RU	Au		Mathinna_Beds	Vein	0	1884.038	0.15	4.59	1.59	3.00	2	Mirloch
30006	Brisbane	499250	5449330	ABM_RU	Au		Mathinna_Beds	Vein	0	616.702	0.01	0.31	0.64	-0.33	1	Tasgeol
32023	Briseis	567400	5444300	ABM_RU	Sn	Au	Jur_Cen_Seq	Placer	0	158.474	0.10	3.06	2.74	0.32	2	Gurung
50270	Britannia	358600	5360325	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	718.283	0.61	18.67	12.26	6.41	2	Tasgeol
30108	Brittania	483800	5438500	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	100.846	0.01	0.31	2.36	-2.05	1	Tasgeol
40018	Brock B.	573300	5407200	ABM_RU	Au		Mathinna_Beds	Vein	2	141.421	0.15	4.59	1.59	3.00	2	Mirloch
31006	Brock Prospect	526000	5440000	ABM_RU	Au		Mathinna_Beds	Vein	0	1485.332	0.10	3.06	9.70	-6.64	1	Tasgeol
31007	Brooklyn	525800	5445900	ABM_RU	Au		Mathinna_Beds	Vein	0	4427.009	0.10	3.06	9.70	-6.64	1	Tasgeol
43008	Brookside Workings	342800	5391750	ABM_RU	Au		Jur_Cen_Seq	Placer	0	416.966	0.17	5.20	38.22	-33.02	1	Tasgeol
55020	Brookstead	574450	5371900	ABM_RU	Sn		Dev_Granitoid	Vein	0	398.197	0.10	3.06	3.32	-0.26	1	Tasgeol
44016	Browns Tunnel	377650	5384640	ABM_RK	Pb-Zn-Au	Cu-Ag-Ba	MRV	Strat/Vein	0	205.913	0.09	2.75	30.31	-27.56	1	Rockchem
50500	Buchanans	370300	5370000	ABM_RK	Sn		Camb_Sed_Seq	Vein	0	304.174	0.39	11.93	10.28	1.65	2	Tasgeol
48056	Buckland	571700	5395650	ABM_RU	Au		Mathinna_Beds	Vein	2	2076.594	0.16	4.90	6.26	-1.36	1	Tasgeol
48079	Buffalo Tin	555700	5384950	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	434.108	0.10	3.06	3.32	-0.26	1	Tasgeol
30007	Bugler	499000	5448900	ABM_RU	Au		Mathinna_Beds	Vein	0	727.836	0.01	0.31	0.64	-0.33	1	Tasgeol
44021	Burns Peak	378400	5384900	ABM_RK	Pb	Ba	MRV	Vein/Dissem	1	101.980	0.09	2.75	7.58	-4.83	1	Rockchem
30101	Buttons	484250	5438900	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	249.560	0.01	0.31	2.36	-2.05	1	Tasgeol
30008	Caledonian	498510	5448370	ABM_RU	Au		Mathinna_Beds	Vein	0	1010.666	0.01	0.31	0.64	-0.33	1	Tasgeol
40002	Caledonian Workings	574700	5406800	ABM_RU	Au		Mathinna_Beds	Vein	0	1392.839	0.15	4.59	1.59	3.00	2	Mirloch
30009	California	498600	5448500	ABM_RU	Au		Mathinna_Beds	Vein	0	891.373	0.01	0.31	0.64	-0.33	1	Tasgeol
30011	California (West)	498800	5448200	ABM_RU	Au		Mathinna_Beds	Vein	0	729.269	0.20	6.12	3.72	2.40	2	Tasgeol
32156	Cambria	581000	5434500	ABM_RU	Sn		Dev_Granitoid	Vein	0	3841.875	0.37	11.32	8.74	2.58	2	Mirloch
45002	Campbells Reward	427270	5402550	ABM_RU	Au	Ag	MRV	Vein	0	2853.133	0.39	11.93	18.77	-6.84	1	Tasgeol
24019	Canary Dorset	580900	5469950	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1382.975	0.01	0.31	2.15	-1.84	1	Tasgeol
43010	Cape Copper	349700	5393400	ABM_RU	Cu	Au Ag	Jur_Cen_Seq	Vein	0	100.000	0.16	4.90	36.26	-31.36	1	Rockchem
58171	Cape Horn	382250	5344200	ABM_RK	Cu	Ag-Au	MRV	Disseminated	3	0.000	5.00	153.00	30.60	122.40	3	Mirloch
30012	Captain	498600	5448800	ABM_RU	Au		Mathinna_Beds	Vein	0	597.616	0.01	0.31	0.64	-0.33	1	Tasgeol
50051	Carbine Prospect	371390	5365380	ABM_RU	Pb-Ag-Zn-Sb	Cu-W-AsBi-Sn	Camb_Sed_Seq	Vein	0	1023.426	5.00	153.00	30.60	122.40	3	Mirloch
31008	Cardigan +A286	505000	5454700	OPM	Au		Jur_Cen_Seq	Placer	0	425.735	0.01	0.31	5.00	-4.69	1	Tasgeol
48057	Cardinal	571700	5395400	ABM_RU	Au		Mathinna_Beds	Vein	0	2324.811	0.16	4.90	6.26	-1.36	1	Tasgeol
40039	Carnegie	570750	5417850	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	10877.730	0.15	4.59	1.59	3.00	2	Mirloch
40074	Caxton (No. 1)	567480	5426130	ABM_RU	Au		Mathinna_Beds	Vein	0	15289.609	0.39	11.93	18.77	-6.84	1	Tasgeol
50124	Cental Federation	350420	5359900	ABM_RU	Sn	Zn-As-Pb-Ag	Dev_Granitoid	Vein/Pipe	3	1786.001	0.10	3.06	1.62	1.44	2	Mirloch
50239	Central Balstrup	361150	5360120	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	219.545	5.00	153.00	30.60	122.40	3	Mirloch
44063	Central Farrell	385850	5377800	ABM_RU	Pb	Ag-Zn-Cu	MRV	Vein	0	155.242	0.16	4.90	27.56	-22.66	1	Rockchem
44058	Central Mackintosh	386050	5379300	ABM_RU	Pb	Zn-Ag	MRV	DissemVein	0	285.727	2.20	67.32	28.42	38.90	3	Gurung
44013	Central Pinnacles	377420	5384400	ABM_RU	Pb-Zn	Cu-Ag-Ba	MRV	VMS	0	516.236	0.47	14.38	10.31	4.07	2	Rockchem
50497	Central Renison	369000	5371500	ABM_RK	Sn		Camb_Sed_Seq	DissemVein	0	297.605	0.60	18.36	9.80	8.56	2	Tasgeol
40059	Central Ringarooma	566700	5429400	ABM_RU	Au		Mathinna_Beds	Vein	0	12927.652	0.39	11.93	18.77	-6.84	1	Tasgeol
30071	Central Volunteer	499950	5448190	ABM_RU	Au		Mathinna_Beds	Vein	0	423.288	0.20	6.12	3.72	2.40	2	Tasgeol
25023	Chaffeyes	584720	5464650	ABM_RU	Au	PT Sn W	Mathinna_Beds	Vein	0	937.443	0.15	4.59	12.63	-8.04	1	Tasgeol
51286	Chamberlain	377550	5371370	ABM_RU	Pb-Zn	Cu-Ag-Au	MRV	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
44026	Chester	378500	5380900	ABM_RK	Py-Zn	Pb-Cu-Ag	MRV	Disseminated	3	0.000	5.00	153.00	30.60	122.40	3	Mirloch

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
40003	Chester & Murray	573300	5407000	ABM_RU	Au		Mathinna_Beds	Vein	1	316.228	0.15	4.59	1.59	3.00	2	Mirloch
30013	Chum (East)	498470	5451240	ABM_RU	Au		Mathinna_Beds	Vein	0	418.169	0.20	6.12	3.72	2.40	2	Tasgeol
30014	Chum (New)	498300	5451200	ABM_RU	Au		Mathinna_Beds	Vein	0	592.811	0.20	6.12	3.72	2.40	2	Tasgeol
30015	Chum (United)	497960	5451130	ABM_RU	Au		Mathinna_Beds	Vein	0	939.854	0.20	6.12	3.72	2.40	2	Tasgeol
30016	Chum (West)	498160	5451210	ABM_RU	Au		Mathinna_Beds	Vein	0	727.987	0.20	6.12	3.72	2.40	2	Tasgeol
30017	Chum Extended (East)	498750	5451330	ABM_RU	Au		Mathinna_Beds	Vein	0	127.142	0.20	6.12	3.72	2.40	2	Tasgeol
40004	City of Hobart	573500	5406800	ABM_RU	Au		Mathinna_Beds	Vein	0	509.902	0.15	4.59	1.59	3.00	2	Mirloch
30018	City of Launceston	498830	5450010	ABM_RU	Au		Mathinna_Beds	Vein	0	735.558	0.01	0.31	0.64	-0.33	1	Tasgeol
40049	City of Melbourne	572800	5409950	ABM_RU	Au		Mathinna_Beds	Vein	2	2717.076	0.15	4.59	1.59	3.00	2	Mirloch
30019	Clansman	498500	5448400	ABM_RU	Au		Mathinna_Beds	Vein	0	980.176	0.01	0.31	0.64	-0.33	1	Tasgeol
30020	Clarence (East)	498640	5450450	ABM_RU	Au		Mathinna_Beds	Vein	0	917.150	0.20	6.12	3.72	2.40	2	Tasgeol
30021	Clarence (North)	498510	5450520	ABM_RU	Au		Mathinna_Beds	Vein	0	894.732	0.20	6.12	3.72	2.40	2	Tasgeol
30022	Clarence (South)	498630	5450440	ABM_RU	Au		Mathinna_Beds	Vein	0	929.422	0.20	6.12	3.72	2.40	2	Tasgeol
24059	Clarence N	574400	5463300	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2926.175	0.55	16.83	3.65	13.18	2	Mirloch
32203	Clarence S	575000	5460500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	213.178	0.10	3.06	16.87	-13.81	1	Tasgeol
65294	Clark Valley	382350	5319300	ABM_RU	Au		MRV	Placer	0	410.932	0.67	20.50	8.11	12.39	2	Tasgeol
35033	Cleveland	365200	5406700	ABM_RK	Sn	Cu-W-Bi-Mo	Precamb_Seq	Strat/Repl	0	40.311	0.85	26.01	33.92	-7.91	1	Tasgeol
52021	Cliff Lodes	419400	5374400	ABM_RU	W-Sn-As		Precamb_Seq	Vein	0	1762.626	0.10	3.06	1.31	1.75	2	Tasgeol
50083	Clifton Mine	374780	5372130	ABM_RU	Cu-As		Camb_Sed_Seq	Stock/Repl	1	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50080	Colebrook Hill	374990	5371600	ABM_RU	Cu	Sn-As	Camb_Sed_Seq	Repl/Vein	3	486.203	0.01	0.31	18.60	-18.29	1	Tasgeol
50128	Colemans	349720	5359060	ABM_RU	Sn		Dev_Granitoid	DissemVein	3	831.865	0.10	3.06	5.49	-2.43	1	Gurung
50086	Colemans	370720	5369090	ABM_RU	Sn		Camb_Ig_Seq	Vein	0	953.206	0.60	18.36	9.80	8.56	2	Tasgeol
31078	Colonel	500400	5448200	ABM_RU	Au		Mathinna_Beds	Vein	0	873.060	0.20	6.12	3.72	2.40	2	Tasgeol
50271	Colonel North	360100	5359300	ABM_RU	Pb-Ag		Camb_Ig_Seq	Vein	0	403.113	5.00	153.00	30.60	122.40	3	Mirloch
50534	Comet - N	370950	5362650	ABM_RU	Ag-Pb		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50024	Comet-Maestries	370840	5362510	ABM_RU	Pb-Ag	Zn-Cu-As	Precamb_Seq	Repl/Vein	3	0.000	5.00	153.00	30.60	122.40	3	Mirloch
48032	Commercial	573500	5404600	ABM_RU	Au		Mathinna_Beds	Vein	0	728.011	0.15	4.59	1.59	3.00	2	Mirloch
32109	Compeer	582500	5439000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	96.333	0.10	3.06	3.32	-0.26	1	Tasgeol
50023	Comstock	357350	5360700	ABM_RU	Pb-Ag-Zn	Au-Cu-Py	Precamb_Seq	Vein	0	0.000	34.50	1055.70	4.21	1051.49	3	Gurung
42003	Cooneys	324850	5396300	ABM_RU	W		Dev_Granitoid	Vein	2	18014.513	0.15	4.59	12.63	-8.04	1	Tasgeol
50089	Cornish's	370470	5367860	ABM_MO	Sn	W	Jur_Cen_Seq	Placer	1	264.518	0.01	0.31	2.15	-1.84	1	Tasgeol
50141	Cornwall	346870	5358000	ABM_RU	Sn		Dev_Granitoid	Vein	0	2490.642	0.10	3.06	5.49	-2.43	1	Gurung
31079	Corporal	500500	5448000	ABM_RU	Au		Mathinna_Beds	Vein	0	984.598	0.20	6.12	3.72	2.40	2	Tasgeol
43016	Cox's Face + B208	349670	5402060	ABM_RU	Au		Jur_Cen_Seq	Vein	0	5488.761	5.00	153.00	30.60	122.40	3	Mirloch
48071	Cradle Creek	553100	5388500	ABM_RU	Sn-W		Dev_Granitoid	Vein	0	1533.073	0.01	0.31	3.26	-2.95	1	Tasgeol
32181	Cream Creek (Lower)	578800	5442700	ABM_RU	Sn		Dev_Granitoid	Vein	0	5243.186	0.39	11.93	18.77	-6.84	1	Tasgeol
32183	Cream Creek (New)	579000	5442950	ABM_RU	Sn		Dev_Granitoid	Vein	0	5373.209	0.10	3.06	3.32	-0.26	1	Tasgeol
32182	Cream Creek (Top)	578800	5443100	ABM_RU	Sn		Dev_Granitoid	Vein	0	5480.419	0.39	11.93	18.77	-6.84	1	Tasgeol
40055	Crest	566650	5429700	ABM_RU	Au		Mathinna_Beds	Vein	0	12720.192	0.39	11.93	18.77	-6.84	1	Tasgeol
43017	Crockford's Tunnel	349690	5402140	ABM_RU	Au		Precamb_Seq	Vein	0	5406.820	5.00	153.00	30.60	122.40	3	Mirloch
40076	Cross Reefs	567320	5426150	ABM_RU	Au		Mathinna_Beds	Vein	0	15345.894	0.39	11.93	18.77	-6.84	1	Tasgeol
50036	Crown Curtin Davis	372730	5366100	ABM_RU	Cu-As-Ag	Bi-Pb-Zn-Sb	Camb_Sed_Seq	Vein	2	762.758	5.00	153.00	30.60	122.40	3	Mirloch
58167	Crown Lyell Extd	383450	5344990	ABM_RK	Pb-Zn-Py	Cu-Ag-Au-As	MRV	VMS	2	0.000	5.00	153.00	30.60	122.40	3	Mirloch
58287	Crown Lyell No. 2	382900	5343300	ABM_RK	Cu	Ag-Au	MRV	Disseminated	2	335.410	5.00	153.00	30.60	122.40	3	Mirloch
58285	Crown Lyell No. 3	383000	5343550	ABM_RK	Cu	Ag-Au	MRV	Disseminated	3	447.214	5.00	153.00	30.60	122.40	3	Mirloch
40063	Crown Prince	567200	5428400	ABM_RU	Au		Mathinna_Beds	Vein	0	13462.102	0.39	11.93	18.77	-6.84	1	Tasgeol
32055	Crystal Hill	583000	5436100	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	1456.022	0.37	11.32	8.74	2.58	2	Mirloch

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
28029	Cuprona Copper King	412600	5446100	ABM_RU	Cu		Precamb_Seq	Vein	0	330.026	0.12	3.67	6.25	-2.58	1	Tasgeol
5005	Curtains	242800	5592900	ABM_RU	Sn		Precamb_Seq	Vein	0	31541.649	0.08	2.45	38.22	-35.77	1	Rockchem
50037	Curtin Davis	373160	5366730	ABM_RU	Ag-Cu-Pb	Bi-As-Sb	Camb_Sed_Seq	Vein	2	0.000	5.00	153.00	30.60	122.40	3	Mirloch
25050	Cybele	589200	5464000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1890.106	0.38	11.63	1.32	10.31	2	Mirloch
88008	Cygnnet GM	505500	5220500	ABM_RU	Au	AgPbZnCuAs	Parmeener_SpG	Stockwork	0	1318.249	0.01	0.31	5.25	-4.94	1	Tasgeol
30087	Dally's United	484620	5438700	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	241.661	1.50	45.90	30.60	15.30	2	Mirloch
51089	Dalmeny Mine	379300	5372220	ABM_RU	Zn	Pb-Ag-Au	MRV	Disseminated	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
40210	Dans Rivulet GF	570000	5418000	ABM_MO	Au		Mathinna_Beds	Vein	0	11227.199	0.15	4.59	1.59	3.00	2	Mirloch
58250	Darwin Pty Adit	384160	5323500	ABM_RU	Cu	Au	MRV	Disseminated	0	315.970	0.84	25.70	17.24	8.46	2	Tasgeol
32204	Davids Creek	573000	5450000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4886.924	0.10	3.06	-3.75	6.81	2	Gurung
29024	Davie's Adit	421090	5440760	ABM_RU	Cu	Fe-Py	MRV	Vein	0	7008.875	0.01	0.31	2.15	-1.84	1	Tasgeol
43018	Davis' Tunnel/Adit	349620	5401960	ABM_RU	Au		Precamb_Seq	Vein	0	5594.640	5.00	153.00	30.60	122.40	3	Mirloch
25038	Dawes	588800	5462400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1388.309	0.01	0.31	2.15	-1.84	1	Tasgeol
32018	Dawn Of Peace	559700	5443200	ABM_RU	Au		Mathinna_Beds	Vein	0	2684.357	0.39	11.93	18.77	-6.84	1	Tasgeol
45017	Dawson And Terry B257	428750	5404870	ABM_RU	Sn	Au	MRV	Disseminated	0	445.027	0.39	11.93	18.77	-6.84	1	Tasgeol
48112	Daylight	578600	5393900	ABM_RU	Au		Mathinna_Beds	Vein	0	7653.701	0.16	4.90	6.26	-1.36	1	Tasgeol
48074	Dead Pig	554100	5386200	ABM_RU	Sn		Dev_Granitoid	Vein	0	755.882	0.18	5.51	5.63	-0.12	1	Tasgeol
25060	Delta	577600	5471200	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1723.955	0.07	2.14	20.58	-18.44	1	Tasgeol
30103	Denmark	484300	5438900	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	231.041	0.01	0.31	2.36	-2.05	1	Tasgeol
32002	Derby	561400	5446650	ABM_RU	Au		Mathinna_Beds	Vein	0	2561.371	0.39	11.93	18.77	-6.84	1	Tasgeol
38016	Derwent	485400	5432400	ABM_RU	Au		Mathinna_Beds	Vein	1	2845.360	0.01	0.31	3.26	-2.95	1	Tasgeol
25004	Deskford Section	584770	5464550	ABM_RU	Au	Sn	Mathinna_Beds	Vein	0	957.758	0.15	4.59	12.63	-8.04	1	Tasgeol
50226	Despatch + A223	361680	5362300	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	323.805	0.31	9.49	7.10	2.39	2	Tasgeol
45003	Devon	422700	5397150	ABM_RU	Ag	Pb-Au	Dev_Granitoid	Vein	0	3556.574	0.42	12.85	4.81	8.04	2	Tasgeol
45004	Devonian	429380	5404000	ABM_RU	Au-Ag-Pb	Fe-Mn-REE	Owen_Cong/Moina_Sst	Vein/Resid	0	725.141	0.39	11.93	18.77	-6.84	1	Tasgeol
29041	Dial Iron Deposit	418230	5438550	ABM_RU	Fe		Owen_Cong/Moina_Sst	Placer	0	9140.441	0.12	3.67	6.25	-2.58	1	Tasgeol
58172	Diamond Hill	377100	5343250	ABM_RU	Ag	Pb-Zn-Au	MRV	Vein	0	156.707	0.36	11.02	0.06	10.96	2	Tasgeol
30023	Digney P.A.	500000	5448400	ABM_RU	Au		Mathinna_Beds	Vein	0	530.879	0.20	6.12	3.72	2.40	2	Tasgeol
24013	Dobsons	574700	5470950	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4236.664	0.07	2.14	20.58	-18.44	1	Tasgeol
50499	Dolcoaths	370600	5370600	ABM_RK	Sn-W		Camb_Sed_Seq	DissemVein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
10002	Dolphin OB	249500	5562000	ABM_RK	W-Mo	Mo	Camb_Sed_Seq	Stratiform	4	152.427	0.08	2.45	38.22	-35.77	1	Rockchem
51077	Donoghue's Section	385660	5374830	ABM_RU	Cu-Pb	Zn-Ag-Au	MRV	Vein	0	236.780	0.43	13.16	30.00	-16.84	1	Rockchem
24025	Doone	582100	5466800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	962.786	0.15	4.59	12.63	-8.04	1	Tasgeol
32151	Dorset Dredge A	581500	5455500	ABM_RK	Sn		Jur_Cen_Seq	Placer	0	329.848	0.15	4.59	12.63	-8.04	1	Tasgeol
32188	Dorset Dredge B	581200	5456100	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	472.017	0.15	4.59	12.63	-8.04	1	Tasgeol
41002	Double Event	587500	5417300	ABM_RU	Au		Dev_Granitoid	Vein	0	2209.072	0.15	4.59	1.59	3.00	2	Mirloch
40053	Drunkards Dream	567200	5429800	ABM_RU	Au		Mathinna_Beds	Vein	0	12308.217	0.39	11.93	18.77	-6.84	1	Tasgeol
24044	Dry Creek	578400	5470000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	426.169	0.07	2.14	20.58	-18.44	1	Tasgeol
24060	Dry Gut	578200	5470000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	626.115	0.07	2.14	20.58	-18.44	1	Tasgeol
30120	Duchess Of York	487000	5433900	ABM_RU	Au	NI	Owen_Cong/Moina_Sst	Vein	0	3205.733	0.39	11.93	6.26	5.67	2	Tasgeol
32064	Duco	582900	5436500	ABM_RU	Sn		Dev_Granitoid	Vein	0	1118.034	0.37	11.32	8.74	2.58	2	Mirloch
24061	Dugard Creek	574700	5471100	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4273.221	0.07	2.14	20.58	-18.44	1	Tasgeol
24064	Dugards	574500	5471200	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4492.574	0.07	2.14	20.58	-18.44	1	Tasgeol
30090	Duke Of Edinburgh	484450	5439100	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	430.674	0.01	0.31	2.36	-2.05	1	Tasgeol
30083	Dundee ; Brandy Creek	483275	5439860	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	702.317	1.71	52.33	32.34	19.99	2	Tasgeol
31012	Dunns Adit	525500	5436500	ABM_RU	Au		Dev_Granitoid	Vein/Placer	0	1726.244	0.10	3.06	9.70	-6.64	1	Tasgeol
44062	Duttons Workings	385500	5377970	ABM_RU	Pb	Zn-Ag	MRV	Vein	0	290.000	0.16	4.90	27.56	-22.66	1	Rockchem

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
44046	East Chester	378950	5384400	ABM_RU	Pb-Zn	Zn	MRV	Disseminated	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50123	East Federation	350920	5359950	ABM_RU	Sn-Zn	W-Ag	Dev_Granitoid	Vein	2	1695.671	0.10	3.06	1.62	1.44	2	Mirloch
40005	East Golden Gate	574900	5407000	ABM_RU	Au		Mathinna_Beds	Vein	0	1529.706	0.15	4.59	1.59	3.00	2	Mirloch
51115	East Hercules	377060	5366760	ABM_RU	Cu	Py-Zn	MRV	Vein/Dissem	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
30054	East Pinafore	498830	5451150	ABM_RU	Au		Mathinna_Beds	Vein	0	191.846	0.20	6.12	3.72	2.40	2	Tasgeol
30057	East Prince	500000	5449400	ABM_RU	Au		Mathinna_Beds	Vein	0	579.846	0.01	0.31	0.64	-0.33	1	Tasgeol
30086	East Tasmania	484620	5438960	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	380.867	0.01	0.31	2.36	-2.05	1	Tasgeol
30070	East Volunteer	500090	5448200	ABM_RU	Au		Mathinna_Beds	Vein	0	563.643	0.20	6.12	3.72	2.40	2	Tasgeol
48011	Eastern Hill	561200	5389400	ABM_RU	Sn	W	Mathinna_Beds	Vein	0	0.000	0.15	4.59	3.94	0.65	2	Mirloch
24075	Echo	578400	5468600	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	762.195	0.01	0.31	2.15	-1.84	1	Tasgeol
32116	Echo	573000	5447700	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4018.457	0.39	11.93	18.77	-6.84	1	Tasgeol
25051	Edina	588700	5461750	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1034.892	0.01	0.31	2.15	-1.84	1	Tasgeol
48004	Egans Alluvial	562300	5389200	ABM_MO	Sn		Jur_Cen_Seq	Residual	1	972.348	0.20	6.12	3.72	2.40	2	Tasgeol
25040	Elizabeth	590700	5466300	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	426.692	0.10	3.06	9.70	-6.64	1	Tasgeol
25041	Empress	586100	5465500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1077.342	0.15	4.59	12.63	-8.04	1	Tasgeol
50135	Empress Victoria	348450	5357700	ABM_RU	Sn	Cu-As-W	Dev_Granitoid	Vein	0	1084.666	0.10	3.06	5.49	-2.43	1	Gurung
32084	Emu Flat	579100	5441000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4039.168	0.10	3.06	3.32	-0.26	1	Tasgeol
40068	Endeavour	567150	5427850	ABM_RU	Au		Mathinna_Beds	Vein	0	13953.989	0.39	11.93	18.77	-6.84	1	Tasgeol
32020	Endurance	581800	5460300	ABM_RU	Sn	Au-REE	Jur_Cen_Seq	Placer	0	0.000	1.15	35.19	13.25	21.94	3	Mirloch
30024	Enterprise	499700	5447400	ABM_RU	Au		Mathinna_Beds	Vein	0	776.294	0.20	6.12	3.72	2.40	2	Tasgeol
30025	Equilla	498400	5451700	ABM_RU	Au		Mathinna_Beds	Vein	0	600.021	0.20	6.12	3.72	2.40	2	Tasgeol
40081	Esk	567600	5424450	ABM_RU	Au		Mathinna_Beds	Vein	0	16750.818	0.39	11.93	18.77	-6.84	1	Tasgeol
32160	Ethel	583550	5438050	ABM_RU	Sn		Dev_Granitoid	Vein	0	570.088	0.37	11.32	8.74	2.58	2	Mirloch
25045	Eureka	587050	5465000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	667.083	0.38	11.63	1.32	10.31	2	Mirloch
30109	Eureka	483550	5437100	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	302.926	0.01	0.31	2.15	-1.84	1	Tasgeol
50087	Evenden Mine	372290	5365540	ABM_RU	Pb-Zn-Ag	Cu	Camb_Sed_Seq	Vein	0	764.853	5.00	153.00	30.60	122.40	3	Mirloch
31072	Everetts Tunnel + A493	523950	5441500	ABM_RU	Au-As-	Zn Pb Cu	Mathinna_Beds	Vein	0	264.259	0.10	3.06	9.70	-6.64	1	Tasgeol
30026	Excelsior	498550	5450050	ABM_RU	Au		Mathinna_Beds	Vein	0	678.119	0.01	0.31	0.64	-0.33	1	Tasgeol
30082	Excelsior ; Brandy Creek	483240	5439790	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	630.384	1.71	52.33	32.34	19.99	2	Tasgeol
50077	Exe Proprietary	373180	5371650	ABM_RU	Sn		Camb_Sed_Seq	Vein	2	1424.406	0.01	0.31	18.60	-18.29	1	Tasgeol
50238	Faheys	362960	5359650	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	264.008	5.00	153.00	30.60	122.40	3	Mirloch
50044	Fahlore	374250	5367890	ABM_RU	Ag-Cu	Pb-Bi-Sb-As	Camb_Sed_Seq	Vein	2	141.421	5.00	153.00	30.60	122.40	3	Mirloch
31014	Fairthorne Prospect	524750	5439400	ABM_RU	Au		Mathinna_Beds	Vein	0	1364.938	0.15	4.59	12.63	-8.04	1	Tasgeol
50158	Falconer Creek	347400	5359000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2055.724	0.10	3.06	5.49	-2.43	1	Gurung
31015	Falkiner Creek	528300	5438500	ABM_RU	Au		Mathinna_Beds	Disseminated	0	3043.275	0.10	3.06	9.70	-6.64	1	Tasgeol
39020	Falkiner Prospect B673	528700	5431200	ABM_RU	Au		Mathinna_Beds	Vein	0	1719.116	0.10	3.06	9.70	-6.64	1	Tasgeol
37036	Falls Mine	428620	5406000	ABM_RU	Sn		Owen_Cong/Moina_Sst	Dissem/Resid	0	577.104	0.67	20.50	8.11	12.39	2	Tasgeol
43023	False Cox's Face	349590	5401970	ABM_RU	Au		Precamb_Seq	Vein	0	5589.007	5.00	153.00	30.60	122.40	3	Mirloch
44057	Farrell Mackintosh	385800	5379300	ABM_RU	Pb		MRV	Disseminated	0	524.538	2.20	67.32	28.42	38.90	3	Gurung
54002	Faulkners Adit	507500	5354500	ABM_RU	Au		Camb_Sed_Seq	Vein	0	242.903	0.60	18.36	9.80	8.56	2	Tasgeol
35041	Fawknars	373200	5412700	ABM_RU	Ag-Pb		MRV	Vein	0	2569.142	0.31	9.49	7.48	2.01	2	Tasgeol
50498	Federal	369700	5370900	ABM_RK	Sn-Po		Camb_Sed_Seq	Vein	0	5.099	14.50	443.70	72.52	371.18	3	Gurung
50072	Fenton's Sluice	370980	5370400	ABM_MO	Sn		Jur_Cen_Seq	Placer	0	429.418	5.00	153.00	30.60	122.40	3	Mirloch
58246	Findon's Section	383020	5323320	ABM_RU	Cu		MRV	Disseminated	0	1301.367	0.84	25.70	17.24	8.46	2	Tasgeol
48059	Fingal	574420	5394420	ABM_RU	Au		Mathinna_Beds	Vein	0	4106.807	0.16	4.90	6.26	-1.36	1	Tasgeol
50297	Firewood Siding	360750	5349850	ABM_RU	Zn-Pb		Gordon_Lst	Replacement	0	5554.729	0.01	0.31	2.15	-1.84	1	Tasgeol
25030	Flemings Wolfram Lode	584700	5464950	ABM_RU	W-Au	Sn-Cu-As	Mathinna_Beds	Vein	0	1058.792	0.15	4.59	12.63	-8.04	1	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
50230	Florence	361275	5361225	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	13.000	7.10	217.26	78.40	138.86	3	Gurung
30105	Florence Nightingale	484250	5438750	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	134.833	0.01	0.31	2.36	-2.05	1	Tasgeol
25047	Fly By Night	585250	5464150	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	390.862	0.15	4.59	12.63	-8.04	1	Tasgeol
27006	Folly Hill (Fury Hill)	363900	5443900	ABM_RU	Au		Precamb_Seq	Vein/Placer	0	144.807	0.22	6.73	10.28	-3.55	1	Tasgeol
32003	Forest King	557300	5456200	ABM_RU	Au		Mathinna_Beds	Vein	0	8566.798	0.39	11.93	18.77	-6.84	1	Tasgeol
40062	Forest King (Jans)	566880	5428470	ABM_RU	Au		Mathinna_Beds	Vein	0	13579.902	0.39	11.93	18.77	-6.84	1	Tasgeol
88020	Forsters Rt B	505500	5217300	ABM_RU	Au			Vein	0	2456.831	0.01	0.31	3.26	-2.95	1	Tasgeol
43025	Fosters (Tunnel Adit)	349650	5401950	ABM_RU	Au		Mathinna_Beds	Vein	0	5600.446	5.00	153.00	30.60	122.40	3	Mirloch
51081	Foys Lode	387040	5373040	ABM_RU	Pb	Zn-Cu-Ag	MRV	Vein	0	934.814	0.26	7.96	15.46	-7.50	1	Tasgeol
31018	Freemans Trenches	510000	5437500	ABM_RU	Au	As	Mathinna_Beds	Vein	0	200.000	0.50	15.30	10.60	4.70	2	Mirloch
43026	Frenchmans East Tunnel	350220	5403170	ABM_RU	Au		Mathinna_Beds	Vein	0	4333.740	5.00	153.00	30.60	122.40	3	Mirloch
33017	Full Moon	584450	5438950	ABM_RU	Sn		Dev_Granitoid	Vein	0	1790.251	0.37	11.32	8.74	2.58	2	Mirloch
32166	Full Moon Extended	583900	5439700	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	1532.084	0.10	3.06	3.32	-0.26	1	Tasgeol
32122	Garabaldi A	580300	5449600	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	260.161	0.10	3.06	16.87	-13.81	1	Tasgeol
32123	Garabaldi B	579600	5449600	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	839.057	0.15	4.59	12.63	-8.04	1	Tasgeol
25046	Garfield	588190	5464650	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	700.071	0.38	11.63	1.32	10.31	2	Mirloch
30119	Garfield	483380	5439185	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	163.918	1.71	52.33	32.34	19.99	2	Tasgeol
40007	Gate Extended	574600	5407000	ABM_RU	Au		Mathinna_Beds	Vein	0	1236.932	0.15	4.59	1.59	3.00	2	Mirloch
30027	General	498000	5448300	ABM_RU	Au		Mathinna_Beds	Vein	0	1169.848	0.01	0.31	0.64	-0.33	1	Tasgeol
32165	Giant	585000	5437800	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	1627.882	0.37	11.32	8.74	2.58	2	Mirloch
36019	Giblin	376120	5412450	ABM_RU	Sn		Precamb_Seq	Disseminated	0	117.631	15.60	477.36	115.64	361.72	3	Gurung
30028	Gift	499700	5448700	ABM_RU	Au		Mathinna_Beds	Vein	0	569.590	0.20	6.12	3.72	2.40	2	Tasgeol
40008	Gladstone	574400	5405400	ABM_RU	Au		Mathinna_Beds	Vein	0	1104.536	0.15	4.59	1.59	3.00	2	Mirloch
51082	Glenfine Mine	376200	5371200	ABM_RU	Py		MRV	Vein	0	1300.000	0.20	6.12	1.58	4.54	2	Rockchem
50114	Globe	353470	5359420	ABM_RU	Sn-Ag	Cu-Zn-Pb	Dev_Granitoid	Dissem/Pipe	3	0.000	0.10	3.06	0.98	2.08	2	Mirloch
31019	Globe (North Workings)	525800	5445500	ABM_RU	Au		Mathinna_Beds	Vein	0	4027.010	0.10	3.06	9.70	-6.64	1	Tasgeol
45005	Glynn Section 1011493M	424600	5399300	ABM_RU	Au	Ag-Py	Owen_Cong/Moina_Sst	Vein	1	914.342	0.42	12.85	4.81	8.04	2	Tasgeol
25007	Golden Age A	584870	5464770	ABM_RU	Au		Mathinna_Beds	Vein	0	1034.105	0.15	4.59	12.63	-8.04	1	Tasgeol
36002	Golden Cliff	415300	5406000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	361.300	0.39	11.93	6.26	5.67	2	Tasgeol
45006	Golden Cliff Mine	426420	5398820	ABM_RK	Au-As-	Cu-Zn-Pb-Ag	Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
32004	Golden Cora	564700	5450350	ABM_RU	Au		Mathinna_Beds	Vein	0	218.014	0.15	4.59	12.63	-8.04	1	Tasgeol
30029	Golden Crest	500000	5448300	ABM_RU	Au		Mathinna_Beds	Vein	0	493.187	0.20	6.12	3.72	2.40	2	Tasgeol
31021	Golden Crest	525700	5441720	ABM_RU	Au	Cu As	Dev_Granitoid	Vein	0	269.981	0.10	3.06	9.70	-6.64	1	Tasgeol
32005	Golden Crest	561200	5445050	ABM_RU	Au		Mathinna_Beds	Vein	0	1763.483	0.39	11.93	18.77	-6.84	1	Tasgeol
32006	Golden Dyke	561980	5447050	ABM_RU	Au		Mathinna_Beds	Vein	0	2065.096	0.39	11.93	18.77	-6.84	1	Tasgeol
48063	Golden Entrance	574820	5393010	ABM_RU	Au		Mathinna_Beds	Vein	0	5500.742	0.16	4.90	6.26	-1.36	1	Tasgeol
30030	Golden Era	498590	5450540	ABM_RU	Au		Mathinna_Beds	Vein	0	846.159	0.20	6.12	3.72	2.40	2	Tasgeol
40015	Golden Gate Mine	574600	5406600	ABM_RU	Au		Mathinna_Beds	Vein	3	1389.244	0.15	4.59	1.59	3.00	2	Mirloch
30106	Golden Gate; Tasmania	484200	5438700	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	165.469	0.01	0.31	2.36	-2.05	1	Tasgeol
48058	Golden Gully	573080	5396450	ABM_RU	Au		Mathinna_Beds	Vein	0	1684.495	0.16	4.90	6.26	-1.36	1	Tasgeol
30031	Golden Heart (New)	498760	5450430	ABM_RU	Au		Mathinna_Beds	Vein	0	844.365	0.39	11.93	18.77	-6.84	1	Tasgeol
39003	Golden Hill	541400	5407700	ABM_RU	Au			Vein	0	23813.830	0.01	0.31	3.26	-2.95	1	Tasgeol
30081	Golden Horseshoe	483000	5440250	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	1111.586	1.71	52.33	32.34	19.99	2	Tasgeol
40050	Golden Horseshoe	573300	5410600	ABM_RU	Au	Ag	Mathinna_Beds	Vein	2	3301.515	0.15	4.59	1.59	3.00	2	Mirloch
32007	Golden King	560700	5444750	ABM_RU	Au		Mathinna_Beds	Vein	0	1943.727	0.39	11.93	18.77	-6.84	1	Tasgeol
32008	Golden Mara	561000	5445700	ABM_RU	Au		Mathinna_Beds	Vein	0	2336.414	0.15	4.59	12.63	-8.04	1	Tasgeol
30032	Golden Point	498900	5449600	ABM_RU	Au		Mathinna_Beds	Vein	0	499.545	0.01	0.31	0.64	-0.33	1	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
31071	Golden Pyramid	523850	5441250	ABM_RU	Au		Dev_Granitoid	Vein	0	266.332	0.10	3.06	9.70	-6.64	1	Tasgeol
41003	Golden Ridge	586700	5415700	ABM_RU	Au		Mathinna_Beds	Vein	0	1166.190	0.15	4.59	1.59	3.00	2	Mirloch
32118	Golden Sovereign	575050	5448700	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4210.668	0.10	3.06	-3.75	6.81	2	Gurung
40010	Golden Stairs	574300	5408100	ABM_RU	Au		Mathinna_Beds	Vein/Placer	0	1204.159	0.15	4.59	1.59	3.00	2	Mirloch
30033	Golden Zone	496800	5452500	ABM_RU	Au		Mathinna_Beds	Vein	0	2380.929	0.20	6.12	3.72	2.40	2	Tasgeol
39024	Gowers	538500	5420700	ABM_RU	Au		Jur_Cen_Seq	Placer	0	16064.176	0.10	3.06	9.70	-6.64	1	Tasgeol
51116	Grand Centre Adit	378320	5370350	ABM_RU	Cu	Pb	MRV	Vein	0	165.529	1.00	30.60	7.58	23.02	3	Rockchem
25008	Grand Flaneur	589300	5475300	ABM_RU	Au	Ag-As	Mathinna_Beds	Vein	0	1940.375	0.01	0.31	2.15	-1.84	1	Tasgeol
50098	Grand Prize Mine	368400	5365340	ABM_RU	Sn	Cu-Ag-As-Zn	Camb_Sed_Seq	Vein	2	1824.719	5.00	153.00	30.60	122.40	3	Mirloch
48073	Grants	554800	5386400	ABM_RU	Sn		Dev_Granitoid	Vein	0	412.311	0.10	3.06	0.65	2.41	2	Mirloch
45001	Great Caledonian	422380	5398950	ABM_RU	Au		MRV	Vein	0	3156.356	0.42	12.85	4.81	8.04	2	Tasgeol
48033	Great Fingal	578300	5394000	ABM_RU	Au		Mathinna_Beds	Vein	0	7344.001	0.16	4.90	6.26	-1.36	1	Tasgeol
58195	Great Lyell B	382600	5339750	ABM_RU	Cu		MRV	Disseminated	0	177.020	0.84	25.70	17.24	8.46	2	Tasgeol
33002	Great Musselroe	589800	5455900	ABM_RU	Sn		Dev_Granitoid	Placer	0	6064.025	0.01	0.31	2.15	-1.84	1	Tasgeol
51120	Great North Colebrook	376300	5372600	ABM_RU	Cu		Owen_Cong/Moina_Sst	Vein/Dissem	0	461.056	0.29	8.87	7.10	1.77	2	Tasgeol
31046	Great Panama (N)	524200	5441400	ABM_RU	Au		Dev_Granitoid	Vein	0	138.683	0.10	3.06	9.70	-6.64	1	Tasgeol
41014	Great Pyramid/Brocks	599600	5413300	ABM_RU	Sn		Mathinna_Beds	Vein	0	419.815	0.20	6.12	3.72	2.40	2	Tasgeol
48015	Great Republic	554900	5386800	ABM_RU	Sn		Dev_Granitoid	Vein/Pipe	2	0.000	0.10	3.06	0.65	2.41	2	Mirloch
50059	Great South Comet	371060	5361520	ABM_RK	Zn-Pb-Ag	Cu	Camb_Ig_Seq	Vein/Repl	3	305.550	0.29	8.87	7.10	1.77	2	Tasgeol
51068	Great South Rosebery	379500	5373400	ABM_RU	Cu	W-Au	MRV	Disseminated	0	50.000	0.35	10.71	7.58	3.13	2	Rockchem
30034	Great West Extended	497000	5452500	ABM_RU	Au		Mathinna_Beds	Vein	0	2208.625	0.20	6.12	3.72	2.40	2	Tasgeol
50286	Great Western	360750	5363550	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
37097	Griffin & Richards	428520	5405300	ABM_RU	Sn	Au	MRV	Disseminated	0	450.388	0.67	20.50	8.11	12.39	2	Tasgeol
32200	Groper	562900	5443600	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	153.101	0.15	4.59	12.63	-8.04	1	Tasgeol
30135	Grubbs	484480	5438600	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	80.000	1.50	45.90	30.60	15.30	2	Mirloch
50278	Grubbs	360150	5358700	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
48072	Guinea Pig	553700	5386250	ABM_RU	Sn		Dev_Granitoid	Vein	0	575.462	0.18	5.51	5.63	-0.12	1	Tasgeol
30095	Haematite Shaft	484550	5438200	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	427.200	1.50	45.90	30.60	15.30	2	Mirloch
58243	Hal Jukes	382740	5326980	ABM_RU	Cu	Ag	MRV	Disseminated	0	1308.878	0.67	20.50	8.11	12.39	2	Tasgeol
58230	Halls Creek	378720	5334450	ABM_RU	Au		Dev_Granitoid	Placer	0	240.527	0.84	25.70	17.24	8.46	2	Tasgeol
36031	Hampshire Silver	398320	5429650	ABM_RU	Pb-Ag-Zn		Dev_Granitoid	Vein/Stock	0	295.137	0.10	3.06	5.62	-2.56	1	Tasgeol
40066	Hannah/Bank	566950	5427750	ABM_RU	Au		Mathinna_Beds	Vein	0	14144.688	0.39	11.93	18.77	-6.84	1	Tasgeol
25043	Hardens Ravine	585700	5465200	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1129.988	0.15	4.59	12.63	-8.04	1	Tasgeol
32201	Harmons	579900	5457900	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1902.630	1.21	37.03	15.60	21.43	3	Mirloch
58226	Harris Reward	379860	5330140	ABM_RU	Au	Pb	Owen_Cong/Moina_Sst	Vein	0	379.459	0.42	12.85	4.81	8.04	2	Tasgeol
30136	Harts Shaft	484400	5438600	OPM	Au		Owen_Cong/Moina_Sst	Vein	0	0.000	1.50	45.90	30.60	15.30	2	Mirloch
32216	Hasties	574800	5458900	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1572.210	0.10	3.06	16.87	-13.81	1	Tasgeol
40034	Havelock	569100	5418150	ABM_RU	Au		Mathinna_Beds	Vein	0	11671.011	0.15	4.59	1.59	3.00	2	Mirloch
58216	Havills Section	384250	5334900	ABM_RU	Cu	Pb	MRV	Disseminated	0	3946.746	1.00	30.60	7.58	23.02	3	Rockchem
6003	Hawkes Alluvial	244400	5588000	ABM_RU	Sn	Au	Jur_Cen_Seq	Placer	3	26421.776	0.08	2.45	38.22	-35.77	1	Rockchem
48019	Hayes	553100	5387700	ABM_RU	W		Dev_Granitoid	Vein	0	733.153	0.01	0.31	3.26	-2.95	1	Tasgeol
50115	Healey and Mcivor	352830	5359500	ABM_RU	Sn		Dev_Granitoid	DissemVein	2	644.981	0.10	3.06	0.98	2.08	2	Mirloch
40203	Heathorns Prospect	569500	5428500	ABM_RU	Au		Mathinna_Beds	Vein	0	12277.972	0.39	11.93	18.77	-6.84	1	Tasgeol
40047	Heaton	572100	5411500	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	4396.590	0.15	4.59	1.59	3.00	2	Mirloch
50061	Hecla Mine	371960	5366230	ABM_RU	Cu-Bi-Ag-As	Pb-Zn-Sb	Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
44002	Hellyer	393400	5396500	ABM_RK	Zn-Pb	Cu-Ag-Au	MRV	VMS	5	0.000	39.60	1211.76	28.50	1183.26	2	WMRL
40011	Hen And Chickens	574100	5407700	ABM_RU	Au		Mathinna_Beds	Vein	0	806.226	0.15	4.59	1.59	3.00	2	Mirloch

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
51106	Henty Gold	380240	5364150	OPM	Au-Ag-	Cu-Pb-Zn	MRV	Disseminated	0	2985.951	0.67	20.50	8.11	12.39	2	Tasgeol
51111	Henty River Adits	377600	5354300	ABM_RU	Pb	Zn-Ag	MRV	Disseminated	0	1867.406	3.40	104.04	7.58	96.46	3	Rockchem
51099	Hercules	376600	5366700	ABM_RK	Zn-Pb	Cu-Ag-Au	MRV	Strat/VMS	3	0.000	18.60	569.16	3.23	565.93	3	Gurung
32202	Herrick	574000	5449000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4651.455	0.10	3.06	-3.75	6.81	2	Gurung
32189	Hibernus Creek	578800	5442090	ABM_RU	Sn			Vein	0	4916.879	0.10	3.06	3.32	-0.26	1	Tasgeol
37022	Higgs or Sunrise	425490	5406680	ABM_RU	Au	Ag-Pb	Owen_Cong/Moina_Sst	Vein/Dissem	2	1156.019	0.36	11.02	0.06	10.96	2	Tasgeol
28025	Highclere	401300	5438100	ABM_RU	Fe-Mag		Camb_Sed_Seq	Residual	0	8679.336	0.10	3.06	5.62	-2.56	1	Tasgeol
40030	Hinemoa	568200	5422150	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	15734.119	0.15	4.59	1.59	3.00	2	Mirloch
30035	Hit or Miss	498700	5449850	ABM_RU	Au		Mathinna_Beds	Vein	0	532.302	0.01	0.31	0.64	-0.33	1	Tasgeol
48034	Hit or Miss	579000	5397900	ABM_RU	Au		Mathinna_Beds	Vein	0	6633.679	0.01	0.31	3.26	-2.95	1	Tasgeol
43175	Hollands	341400	5389000	ABM_RU	Au		Jur_Cen_Seq	Placer	2	237.857	0.15	4.59	12.63	-8.04	1	Tasgeol
24003	Hope	551140	5468520	ABM_RU	Au		Mathinna_Beds	Vein	0	1895.348	0.01	0.31	5.00	-4.69	1	Tasgeol
40072	Hope	567400	5426600	ABM_RU	Au		Mathinna_Beds	Vein	0	14911.264	0.39	11.93	18.77	-6.84	1	Tasgeol
48035	Horseshoe	574700	5405300	ABM_RU	Au		Mathinna_Beds	Vein	0	1400.000	0.15	4.59	1.59	3.00	2	Mirloch
50132	Humphries Workings	348930	5358280	ABM_RU	Sn	Cu-Sb-Bi	Dev_Granitoid	Vein	0	411.947	0.10	3.06	5.49	-2.43	1	Gurung
32117	Hydes	572100	5446800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2753.833	0.39	11.93	18.77	-6.84	1	Tasgeol
58241	Hydes Prospect	382650	5326300	ABM_RU	Cu-Ag	Ag	MRV	Disseminated	0	1986.323	0.67	20.50	8.11	12.39	2	Tasgeol
32009	Imperial	558550	5455550	ABM_RU	Au		Mathinna_Beds	Vein	0	7357.603	0.39	11.93	18.77	-6.84	1	Tasgeol
30036	Indian Runner	498780	5450140	ABM_RU	Au		Mathinna_Beds	Vein	0	828.677	0.01	0.31	0.64	-0.33	1	Tasgeol
37015	Iris	424300	5405450	ABM_RU	Sn	W Bi	Jur_Cen_Seq	Placer/Resid	1	64.622	0.01	0.31	0.64	-0.33	1	Tasgeol
48005	Ivanhoe	561400	5385900	ABM_MO	Sn		Dev_Granitoid	Vein	1	483.322	0.18	5.51	5.63	-0.12	1	Tasgeol
31068	Jacks #1; ML 1346-G	524450	5441350	ABM_RU	Au	As	Mathinna_Beds	Vein	0	341.955	0.10	3.06	9.70	-6.64	1	Tasgeol
31069	Jacks #2; ML 1492-G	524600	5441500	ABM_RU	Au		Mathinna_Beds	Vein	0	529.559	0.10	3.06	9.70	-6.64	1	Tasgeol
51133	Jenkins Tunnel	376620	5367560	ABM_RK	Py		MRV	Disseminated	0	0.000	11.10	339.66	0.98	338.68	3	Gurung
40087	Jimmie Govenor	566800	5429000	ABM_RU	Au			Vein	0	13190.640	0.39	11.93	18.77	-6.84	1	Tasgeol
31024	Jim's Costean	526120	5445360	ABM_RU	Au		Mathinna_Beds	Vein	0	3899.422	0.10	3.06	9.70	-6.64	1	Tasgeol
30137	Johnson & Knight+A344	482800	5439700	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	682.879	1.71	52.33	32.34	19.99	2	Tasgeol
48036	Jubilee Gold Mine	575200	5405000	ABM_RU	Au	Ag-As		Vein	0	1923.538	0.15	4.59	1.59	3.00	2	Mirloch
58290	Jukes Comstock	383300	5331500	ABM_RU	Cu	Au Pb	MRV	Disseminated	0	620.890	1.00	30.60	7.58	23.02	3	Rockchem
58220	Jukes Consols	383450	5331950	ABM_RU	Cu		MRV	Disseminated	0	976.732	1.00	30.60	7.58	23.02	3	Rockchem
50224	Junction	360425	5362650	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	230.489	5.00	153.00	30.60	122.40	3	Mirloch
51085	Jupiter	376750	5369770	ABM_RK	Zn-Pb	Cu-Ag-Au	MRV	VMS	3	0.000	5.00	153.00	30.60	122.40	3	Mirloch
51086	Jupiter Cu No. 1 Adit	376910	5369400	ABM_RU	Cu	Py	MRV	Disseminated	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
39021	Just-In-Time	527800	5431300	ABM_RU	Au		Mathinna_Beds	Disseminated	0	1321.802	0.10	3.06	9.70	-6.64	1	Tasgeol
36007	Kara No. 1	397200	5425700	ABM_RU	W	Fe	Gordon_Lst	Replacement	0	352.959	0.10	3.06	5.62	-2.56	1	Tasgeol
50045	Karlson Riley	371480	5369460	ABM_RU	Sn	Au-Cu-As	Camb_Sed_Seq	Replacement	0	1233.678	0.39	11.93	10.28	1.65	2	Tasgeol
50116	Kelvin	352180	5357080	ABM_RU	Sn	Mo	Precamb_Seq	Vein/Stock	0	148.661	0.14	4.28	6.60	-2.32	1	Mirloch
31027	Kenner & Hacketts	505400	5454050	ABM_RU	Au		Mathinna_Beds	Vein	0	417.433	0.01	0.31	5.00	-4.69	1	Tasgeol
42001	Kenneys	324400	5398350	ABM_RU	W		Dev_Granitoid	Vein	2	19347.617	0.15	4.59	12.63	-8.04	1	Tasgeol
32068	Kent	580400	5441100	ABM_RU	Sn		Dev_Granitoid	Dissem/Resid	0	3066.020	0.10	3.06	3.32	-0.26	1	Tasgeol
37102	Kenzies	427700	5406200	ABM_RU	W	Sn	Jur_Cen_Seq	Placer	0	1165.642	0.10	3.06	3.78	-0.72	1	Tasgeol
32010	Kerrisons	565850	5448400	ABM_RU	Au		Mathinna_Beds	Vein	0	2068.316	0.15	4.59	12.63	-8.04	1	Tasgeol
40037	King Edward	570500	5418200	ABM_RU	Au		Mathinna_Beds	Vein	2	11279.184	0.15	4.59	1.59	3.00	2	Mirloch
10001	King Island Scheelite	249000	5562000	ABM_RK	W-Mo	Mo	Camb_Sed_Seq	Stratiform	4	346.133	0.17	5.20	38.22	-33.02	1	Tasgeol
58225	King Jukes Mine	383200	5331250	ABM_RU	Cu-Pb-Ag	Pb-Ag	MRV	Disseminated	0	528.493	1.00	30.60	7.58	23.02	3	Rockchem
58187	King Lyell	383450	5341750	ABM_RU	Cu		Gordon_Lst	Disseminated	0	204.941	1.40	42.84	0.49	42.35	3	Gurung
58204	King River Gold	379270	5336350	ABM_RU	Au		MRV	Vein	0	186.067	0.81	24.79	15.46	9.33	2	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
40046	King Solomon	571900	5411850	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	4790.877	0.15	4.59	1.59	3.00	2	Mirloch
30146	King Victor	485500	5436500	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	400.405	0.39	11.93	6.26	5.67	2	Tasgeol
88005	Kings Hill	504200	5219800	ABM_RU	Au-Ag-Cu	Ba-Pb-Zn-As	Jur_Cen_Seq	Stockwork	0	158.685	0.01	0.31	5.25	-4.94	1	Tasgeol
51095	Kitsons Workings	387440	5372040	ABM_RU	Cu	Ag-Bi-Zn	MRV	Vein	0	366.984	0.26	7.96	15.46	-7.50	1	Tasgeol
30037	Kitto Chum	498090	5451240	ABM_RU	Au		Mathinna_Beds	Vein	0	792.834	0.20	6.12	3.72	2.40	2	Tasgeol
30091	Kohinoor	484350	5438000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	602.080	1.50	45.90	30.60	15.30	2	Mirloch
51091	Koonya	378350	5370780	ABM_RK	Zn-Pb	Ag-Cu-Au	MRV	Vein	2	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50264	Kynance	355925	5360850	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	591.772	0.16	4.90	12.26	-7.36	1	Tasgeol
29008	Lady Braddon	418880	5444170	ABM_RU	Fe-Cu	Pb-Ba-Au	Precamb_Seq	Vein	0	5097.458	0.01	0.31	2.15	-1.84	1	Tasgeol
37066	Lady Braddon Tunnel	418830	5444400	ABM_RU	Fe-LIM	Au-Cu	Camb_Sed_Seq	Replacement	0	4984.348	0.01	0.31	2.15	-1.84	1	Tasgeol
31028	Lady Emily	504940	5455080	ABM_RU	Au		Mathinna_Beds	Vein	0	134.164	0.33	10.10	8.60	1.50	2	Mirloch
31029	Lady Hamilton	524800	5445200	ABM_RU	Au		Jur_Cen_Seq	Placer	0	3861.167	0.10	3.06	9.70	-6.64	1	Tasgeol
40033	Lady Havelock	568750	5418800	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	12404.535	0.15	4.59	1.59	3.00	2	Mirloch
40048	Lady Mary	572200	5411050	ABM_RU	Au		Mathinna_Beds	Vein	0	3937.321	0.15	4.59	1.59	3.00	2	Mirloch
25011	Lady Tasman	584880	5464150	ABM_RU	Au	Sn	Mathinna_Beds	Vein	0	757.029	0.15	4.59	12.63	-8.04	1	Tasgeol
32063	Laffer	574400	5439400	ABM_RU	Sn		Dev_Granitoid	Vein	0	331.355	0.39	11.93	18.77	-6.84	1	Tasgeol
50174	Laffers	346700	5368200	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	692.223	1.00	30.60	28.36	2.24	2	Tasgeol
51341	Laffers Workings	375450	5367500	ABM_RU	Au		Jur_Cen_Seq	Placer	0	665.324	0.29	8.87	7.10	1.77	2	Tasgeol
50171	Laffers Workings	340750	5370600	ABM_RK	Sn		Jur_Cen_Seq	Placer	0	4632.337	1.00	30.60	28.36	2.24	2	Tasgeol
58232	Lake Jukes Mine	383050	5328300	ABM_RU	Cu	Au-Ag-Pb	MRV	Disseminated	0	135.207	0.67	20.50	8.11	12.39	2	Tasgeol
58234	Lake Jukes Pty	382250	5327700	ABM_RU	Fe	HEM	MRV	Vein	0	1047.225	0.67	20.50	8.11	12.39	2	Tasgeol
58165	Lake Margaret	379600	5345020	ABM_RU	Au		MRV	Vein	0	2130.900	0.36	11.02	0.06	10.96	2	Tasgeol
51154	Lake Selina Cu	385650	5361550	ABM_RU	Cu	Py	MRV	Disseminated	0	465.155	0.10	3.06	26.97	-23.91	1	Tasgeol
51158	Lakeside	384570	5375350	ABM_RK	Au	As-Cu-Sn-Ag	MRV	Vein	1	471.425	0.01	0.31	4.50	-4.19	1	Tasgeol
25054	Lanka - N	587200	5460800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	906.601	0.15	4.59	12.63	-8.04	1	Tasgeol
33010	Lanka - S	587350	5460600	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1034.699	0.01	0.31	2.15	-1.84	1	Tasgeol
40032	Larandah	568850	5419000	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	12553.585	0.15	4.59	1.59	3.00	2	Mirloch
37016	Lawkemplaw	424320	5405720	ABM_RU	W		MRV	Vein	1	325.576	0.15	4.59	1.67	2.92	2	Mirloch
25057	Lawry	587400	5465500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	460.977	0.38	11.63	1.32	10.31	2	Mirloch
37075	Lawson and Rileys	424990	5405870	ABM_RU	W		MRV	Vein	0	392.404	0.36	11.02	0.06	10.96	2	Tasgeol
37107	Lea River Alluvial	420000	5406700	ABM_RU	Au		Jur_Cen_Seq	Placer	0	189.283	0.42	12.85	4.81	8.04	2	Tasgeol
50195	Lead Blocks	367000	5367750	ABM_RU	Pb-Ag-Zn	Cu	Camb_Sed_Seq	Vein	2	0.000	5.00	153.00	30.60	122.40	3	Mirloch
31031	Lebrina Mine	521100	5442650	ABM_RU	Au		Mathinna_Beds	Vein	0	3304.895	0.10	3.06	9.70	-6.64	1	Tasgeol
51151	Leech Hill	379750	5353700	ABM_RU	Py		MRV	Disseminated	0	126.732	0.67	20.50	8.11	12.39	2	Tasgeol
30039	Leefloyd	499530	5448880	ABM_RU	Au		Mathinna_Beds	Vein	0	723.003	0.20	6.12	3.72	2.40	2	Tasgeol
30097	Lefroy	484450	5438600	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	50.000	1.50	45.90	30.60	15.30	2	Mirloch
48101	Leona	563950	5378500	ABM_RU	Sn		Dev_Granitoid	Vein	0	2601.012	0.01	0.31	0.64	-0.33	1	Tasgeol
31032	Leura	507700	5454900	ABM_RU	Au		Mathinna_Beds	Vein	0	267.778	0.39	11.93	18.77	-6.84	1	Tasgeol
30093	Leviathan	484400	5438350	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	250.000	1.50	45.90	30.60	15.30	2	Mirloch
32056	Liberator	582300	5436300	ABM_RU	Sn	Mo-Cu	Dev_Granitoid	Disseminated	0	1627.882	0.37	11.32	8.74	2.58	2	Mirloch
32011	Linton #1 Lode	557570	5455100	ABM_RU	Au	As	Mathinna_Beds	Vein	0	7515.299	0.39	11.93	18.77	-6.84	1	Tasgeol
31033	Lisle Creek Workings	527100	5435000	ABM_RU	Au		Jur_Cen_Seq	Placer	0	366.067	0.10	3.06	9.70	-6.64	1	Tasgeol
31109	Lisle Gold Mine	525500	5435700	ABM_RU	Au		Jur_Cen_Seq	Placer/Resid	0	1415.276	0.10	3.06	9.70	-6.64	1	Tasgeol
31112	Lisle Hydraulic-N	526500	5436500	ABM_RU	Au		Jur_Cen_Seq	Placer/Resid	0	944.415	0.10	3.06	9.70	-6.64	1	Tasgeol
31035	Lisle Hydraulic-S	526000	5435500	ABM_RU	Au		Jur_Cen_Seq	Placer	0	884.197	0.10	3.06	9.70	-6.64	1	Tasgeol
39005	Lisle Valley-S	527400	5432500	ABM_RU	Au	Mo-Sn-GEMS	Jur_Cen_Seq	Vein	0	352.081	0.10	3.06	9.70	-6.64	1	Tasgeol
54001	Little Den	508100	5354500	ABM_RU	Au		Jur_Cen_Seq	Placer	0	379.739	0.60	18.36	9.80	8.56	2	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
30116	Little Wonder	483550	5439050	ABM_RU	Au	Pb-Zn-Cu-As	Owen_Cong/Moina_Sst	Vein	0	349.748	1.71	52.33	32.34	19.99	2	Tasgeol
88007	Livingstone Mine	508300	5221900	ABM_RU	Au		Parmeener_SpG	Vein/Stock	0	378.190	0.18	5.51	5.63	-0.12	1	Tasgeol
25039	Locharber	584900	5467500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	552.246	0.15	4.59	12.63	-8.04	1	Tasgeol
30084	London Adit	483200	5439650	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	490.331	1.71	52.33	32.34	19.99	2	Tasgeol
30040	Londonderry	499200	5447200	ABM_RU	Au		Mathinna_Beds	Vein	0	1011.649	0.20	6.12	3.72	2.40	2	Tasgeol
32155	Lone Brothers Home	569800	5445900	ABM_RU	Sn		Dev_Granitoid	Vein	0	1443.189	0.39	11.93	18.77	-6.84	1	Tasgeol
32074	Lone Star	570200	5434300	ABM_RU	Sn		Dev_Granitoid	Vein	0	6909.862	0.39	11.93	18.77	-6.84	1	Tasgeol
31036	Lone Star Creek	524300	5438000	ABM_RU	Au		Jur_Cen_Seq	Placer	0	105.622	0.15	4.59	12.63	-8.04	1	Tasgeol
50126	Long Adit	350520	5359540	ABM_RU	Sn		Dev_Granitoid	Vein	0	1417.674	0.10	3.06	1.62	1.44	2	Mirloch
40075	Long Struggle	567420	5426100	ABM_RU	Au		Mathinna_Beds	Vein	0	15343.818	0.39	11.93	18.77	-6.84	1	Tasgeol
48017	Long Tunnel	553200	5388300	ABM_RU	Sn	W Cu	Dev_Granitoid	Vein	0	1335.707	0.01	0.31	3.26	-2.95	1	Tasgeol
48076	Long Tunnel Quillerat	554750	5385950	ABM_RU	Sn		Dev_Granitoid	Vein	0	355.179	0.16	4.90	6.26	-1.36	1	Tasgeol
33008	Lottah/Giant	585900	5437700	ABM_RU	Sn		Dev_Granitoid	Vein	0	2507.987	0.37	11.32	8.74	2.58	2	Mirloch
50184	Lower Montagu Creek	348430	5357480	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1238.426	0.10	3.06	5.49	-2.43	1	Gurung
43035	Lucy Creek Workings -A	346550	5386000	ABM_RU	Au		Jur_Cen_Seq	Placer	0	850.459	0.15	4.59	12.63	-8.04	1	Tasgeol
43036	Lucy Spur	346750	5385400	ABM_RU	Au		Jur_Cen_Seq	Placer	0	229.957	0.15	4.59	12.63	-8.04	1	Tasgeol
48028	Lutwyche	563050	5388500	ABM_RK	W		Mathinna_Beds	Vein	3	269.258	0.15	4.59	3.94	0.65	2	Mirloch
58176	Lyell Blocks	383350	5343100	ABM_RU	Cu		MRV	Disseminated	0	158.114	5.00	153.00	30.60	122.40	3	Mirloch
58168	Lyell Comstock	383150	5344800	ABM_MO	Cu		MRV	Stock/Dissem	0	63.977	3.40	104.04	9.11	94.93	3	Gurung
58205	Lyell Consols	383700	5342450	ABM_RU	Cu		Gordon_Lst	Disseminated	0	167.720	1.42	43.45	4.81	38.64	3	Tasgeol
58289	Lyell Propriety	383650	5341150	ABM_RU	Cu	Au	MRV	Disseminated	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
58282	Lyell Tharsis	383150	5342950	ABM_RK	Cu		MRV	Disseminated	2	141.598	0.15	4.59	6.25	-1.66	1	Tasgeol
58030	Lynchford Silver Reward	377700	5334870	ABM_RU	Pb		Gordon_Lst	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
43037	Lynchs Tunnel	350040	5403020	ABM_RU	Au		Precamb_Seq	Vein	0	4494.441	5.00	153.00	30.60	122.40	3	Mirloch
40042	Mabel (Dans Reward)	570600	5414600	ABM_RU	Au		Mathinna_Beds	Vein	2	7818.568	0.15	4.59	1.59	3.00	2	Mirloch
51079	Maces Mine	385650	5374000	ABM_RU	Pb		MRV	Vein	0	353.706	0.11	3.37	30.00	-26.63	1	Rockchem
24017	Macgregor	580350	5470200	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1538.675	0.07	2.14	20.58	-18.44	1	Tasgeol
44270	Mackintosh Mine	386150	5380000	ABM_RU	Cu		MRV	Disseminated	0	585.317	7.80	238.68	36.26	202.42	3	Gurung
37105	Macphersons Mine	427250	5428320	ABM_RU	Cu		MRV	Disseminated	0	19215.459	0.84	25.70	17.24	8.46	2	Tasgeol
58190	Madam Howard Mine	377750	5340050	ABM_RU	Au		Gordon_Lst	Vein	0	3120.394	0.36	11.02	0.06	10.96	2	Tasgeol
50097	Madam Melba	369340	5367110	ABM_RU	Pb-Ag	Zn-Sb	Camb_Ig_Seq	Vein	2	1120.272	0.01	0.31	2.15	-1.84	1	Tasgeol
50507	Maestries Broken Hill	370950	5362300	ABM_RU	Pb		Precamb_Seq	Vein	0	237.065	5.00	153.00	30.60	122.40	3	Mirloch
40067	Magg/Roaring Mag	567100	5427850	ABM_RU	Au		Mathinna_Beds	Vein	0	13980.340	0.39	11.93	18.77	-6.84	1	Tasgeol
35040	Magnet	370000	5410700	ABM_RU	Ag-Pb		Camb_Ig_Seq	Vein	0	118.004	0.50	15.30	9.96	5.34	2	Gurung
30195	Main Adit	484500	5438550	ABM_RU	Au		Jur_Cen_Seq	Vein	0	111.803	1.50	45.90	30.60	15.30	2	Mirloch
32198	Main Lead	570000	5444500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	449.437	0.39	11.93	18.77	-6.84	1	Tasgeol
48001	Main/Spiers Shaft	562500	5388000	ABM_RK	Sn		Mathinna_Beds	Vein	4	0.000	0.15	4.59	3.94	0.65	2	Mirloch
48138	Majors Gully (Central)	573200	5394800	OPM	Au		Jur_Cen_Seq	Placer	0	3162.395	0.16	4.90	6.26	-1.36	1	Tasgeol
48139	Majors Gully (South)	573100	5394000	OPM	Au		Jur_Cen_Seq	Placer	0	3880.611	0.16	4.90	6.26	-1.36	1	Tasgeol
32012	Malabar	558200	5450500	ABM_RU	Au		Mathinna_Beds	Vein	0	4149.388	0.39	11.93	18.77	-6.84	1	Tasgeol
25072	Mallisons; Mallinsons	584600	5467400	ABM_RU	Sn	W	Jur_Cen_Seq	Placer	0	796.603	0.15	4.59	12.63	-8.04	1	Tasgeol
32028	Mammoth	571500	5434800	ABM_RU	Sn		Dev_Granitoid	Vein/Placer	0	5755.223	0.39	11.93	18.77	-6.84	1	Tasgeol
48012	Mammoth Tin	560200	5389700	ABM_RU	Sn		Mathinna_Beds	Vein	0	635.151	0.16	4.90	1.26	3.64	2	Tasgeol
48064	Mangana Gold Reefs	574650	5392770	ABM_RU	Au		Mathinna_Beds	Vein	0	5623.962	0.16	4.90	6.26	-1.36	1	Tasgeol
50236	Manganese Hill	360700	5360700	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50196	Mariposa	367350	5358960	ABM_RU	Pb-Ag-Zn		Gordon_Lst	Vein/Dissem	0	213.469	0.31	9.49	7.10	2.39	2	Tasgeol
50257	Mariposa (E)	367580	5359100	ABM_RU	Pb-Zn-Ag		Gordon_Lst	Vein/Dissem	0	456.715	0.31	9.49	7.10	2.39	2	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
31081	Marshall	501000	5448200	ABM_RU	Au		Mathinna_Beds	Vein	0	905.989	0.10	3.06	0.15	2.91	2	Tasgeol
24004	Martial Call	551680	5469050	ABM_RU	Au		Mathinna_Beds	Vein	0	2272.872	0.01	0.31	5.00	-4.69	1	Tasgeol
40028	Martyns Section	573500	5406300	ABM_RU	Au		Mathinna_Beds	Vein	0	1004.988	0.15	4.59	1.59	3.00	2	Mirloch
25093	Mary	585600	5466900	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	390.610	0.15	4.59	12.63	-8.04	1	Tasgeol
50241	Maxim	361650	5359350	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	213.560	0.98	29.99	0.96	29.03	3	Tasgeol
50117	Mayne	352230	5356940	ABM_RU	Sn	Zn-Pb	Precamb_Seq	Vein/Stock	3	0.000	0.14	4.28	6.60	-2.32	1	Mirloch
40060	McCauls A1	566700	5429250	ABM_RU	Au		Mathinna_Beds	Vein	0	13047.708	0.39	11.93	18.77	-6.84	1	Tasgeol
58001	McDowells P.A.	384800	5342450	ABM_RU	Au		Owen_Cong/Moina_Sst	Placer	0	709.649	0.60	18.36	7.05	11.31	2	Tasgeol
44019	McGuinness Shaft	377340	5384270	ABM_RU	Au	Cu-Py-Zn	MRV	Vein/Dissem	0	656.049	0.47	14.38	10.31	4.07	2	Rockchem
30041	McIvor	499030	5449460	ABM_RU	Au		Mathinna_Beds	Vein	0	583.648	0.01	0.31	0.64	-0.33	1	Tasgeol
31039	McKennas Tunnel	510200	5437500	ABM_RU	Au	As Cu	Mathinna_Beds	Vein	0	0.000	0.50	15.30	10.60	4.70	2	Mirloch
50277	McLeans	359050	5358825	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
35004	McPhees Adits	351200	5410800	ABM_RU	Au		Precamb_Seq	Vein	0	3057.113	0.60	18.36	9.96	8.40	2	Gurung
92002	Melaleuca	431000	5192000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	75983.005	0.18	5.51	5.63	-0.12	1	Tasgeol
92003	Melaleuca (E)	432000	5191200	ABM_RK	Sn		Jur_Cen_Seq	Placer	0	75313.695	0.18	5.51	5.63	-0.12	1	Tasgeol
40071	Mercury No. 1	567150	5426750	ABM_RU	Au		Mathinna_Beds	Vein	0	14900.933	0.39	11.93	18.77	-6.84	1	Tasgeol
44051	Metropolitan Mines	387100	5381800	ABM_RU	Cu	Pb	MRV	Vein	0	456.856	0.15	4.59	6.25	-1.66	1	Tasgeol
51122	Milton Shaft	378280	5372840	ABM_RU	Au	Ag	MRV	Vein	0	304.926	0.43	13.16	5.06	8.10	2	Rockchem
40014	Miners Dream	574700	5405500	ABM_RU	Au		Mathinna_Beds	Vein	2	1414.214	0.15	4.59	1.59	3.00	2	Mirloch
30042	Mole Creek; Zeehan	498000	5448500	ABM_RU	Au		Mathinna_Beds	Vein	0	988.405	0.01	0.31	0.64	-0.33	1	Tasgeol
24028	Monarch; Shallamar	576850	5464900	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	0.000	0.55	16.83	3.65	13.18	2	Mirloch
31040	Monkland	501100	5449100	ABM_RU	Au		Mathinna_Beds	Vein	0	4.000	0.10	3.06	0.15	2.91	2	Tasgeol
50183	Montagu Creek	348820	5357700	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	809.197	0.10	3.06	5.49	-2.43	1	Gurung
50133	Montagu Extended	348480	5358330	ABM_RU	Sn		Dev_Granitoid	Vein	0	860.058	0.10	3.06	5.49	-2.43	1	Gurung
50240	Montague No. 1	361680	5359800	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50404	Montana #10	360300	5361000	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	144.222	5.00	153.00	30.60	122.40	3	Mirloch
50379	Montana #2	361030	5362030	ABM_RU	Pb-Zn		Precamb_Seq	Vein	0	111.803	2.30	70.38	38.22	32.16	3	Gurung
50403	Montana #6	360640	5362550	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50018	Montana Silver Lead	360100	5364600	ABM_RU	Pb-Ag	Cu-Zn	Precamb_Seq	Vein	0	421.602	1.20	36.72	19.60	17.12	2	Gurung
50219	Montana Tin	360990	5362120	ABM_RU	Sn			Vein	0	14.142	2.30	70.38	38.22	32.16	3	Gurung
33004	Moon, New Moon	584300	5439100	ABM_RU	Sn		Dev_Granitoid	Dissem/Resid	0	1735.765	0.10	3.06	3.32	-0.26	1	Tasgeol
30138	Moonlight	483700	5439000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	411.546	0.01	0.31	2.36	-2.05	1	Tasgeol
31041	Moonlight	505200	5455000	ABM_RU	Au		Mathinna_Beds	Vein	0	282.843	0.33	10.10	8.60	1.50	2	Mirloch
30115	Moonlight-Cum-Wonder	483600	5439000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	414.155	1.71	52.33	32.34	19.99	2	Tasgeol
25092	Moores	588900	5463100	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1948.898	0.01	0.31	2.15	-1.84	1	Tasgeol
30044	Morning Star	498600	5450300	ABM_RU	Au		Mathinna_Beds	Vein	0	932.816	0.01	0.31	0.64	-0.33	1	Tasgeol
25094	Morrisseys	585000	5466400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	235.032	0.15	4.59	12.63	-8.04	1	Tasgeol
58215	Mountain Maid	383450	5334600	ABM_RU	Au	Py	MRV	Disseminated	0	3609.350	1.00	30.60	7.58	23.02	3	Rockchem
48039	Mountaineer	575200	5405200	ABM_RU	Au		Mathinna_Beds	Vein	0	1902.630	0.15	4.59	1.59	3.00	2	Mirloch
26001	Mt Balfour Cu Mine	322000	5434800	ABM_RU	Cu	Au-Ag	Precamb_Seq	Vein	0	99.730	1.70	52.02	32.49	19.53	2	Tasgeol
36084	Mt Bischoff	373700	5412800	ABM_RU	Sn		Precamb_Seq	Vein	0	2070.287	0.31	9.49	7.48	2.01	2	Tasgeol
51126	Mt Black Extended	379200	5373250	ABM_RU	Cu		MRV	Vein	0	206.155	5.00	153.00	30.60	122.40	3	Mirloch
51211	Mt Black Pty	379150	5373450	ABM_RU	Cu-Au	Ag-Pb-Zn	MRV	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
24048	Mt Cameron Creek	584100	5464000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	428.882	0.15	4.59	12.63	-8.04	1	Tasgeol
58373	Mt Ellen Gold Mine	382158	5334805	ABM_MO	Au			Vein	0	3196.299	0.81	24.79	15.46	9.33	2	Tasgeol
44061	Mt Farrell Mine	385700	5378600	ABM_RU	Pb	Ag-Cu-Zn	MRV	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
32157	Mt George	561900	5439700	ABM_RU	Sn		Dev_Granitoid	Dissem/Resid	0	3619.068	0.39	11.93	18.77	-6.84	1	Tasgeol

Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
32013 Mt Horror	558100	5456200	ABM_RU	Au		Mathinna_Beds	Vein	0	8144.570	0.39	11.93	18.77	-6.84	1	Tasgeol
32211 Mt Joseph	561200	5441500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2478.220	0.39	11.93	18.77	-6.84	1	Tasgeol
58224 Mt Jukes Pty	383510	5330970	ABM_RK	Cu-Ag-Au	Ag-Au	MRV	Disseminated	4	156.349	1.00	30.60	7.58	23.02	3	Rockchem
43141 Mt Lindsay	360500	5382700	ABM_RU	Sn		Camb_Sed_Seq	Disseminated	0	1772.005	0.40	12.24	10.40	1.84	2	Mirloch
65290 Mt Lyell Consols	383440	5321280	ABM_RU	Cu	Pb-Au	MRV	Vein/Dissem	0	1121.606	5.00	153.00	30.60	122.40	3	Mirloch
58258 Mt Lyell Extended	384140	5321680	ABM_RU	Cu	Au	MRV	Vein	0	357.771	5.00	153.00	30.60	122.40	3	Mirloch
32059 Mt Marie	583700	5439350	ABM_RU	Sn		Dev_Granitoid	Dissem/Resid	0	1201.574	0.10	3.06	3.32	-0.26	1	Tasgeol
45008 Mt Oliver	428600	5405200	ABM_RU	Au	Sn		Vein	0	443.451	0.67	20.50	8.11	12.39	2	Tasgeol
32035 Mt Paris	564300	5437200	ABM_RU	Sn		Dev_Granitoid	Dissem/Resid	0	5898.740	0.15	4.59	12.63	-8.04	1	Tasgeol
52003 Mt Pelion Copper	419900	5368900	ABM_RU	Cu	Au	Precamb_Seq	Vein	0	374.012	0.01	0.31	4.50	-4.19	1	Tasgeol
52005 Mt Pelion Wolfram	419300	5374400	ABM_RU	W-Mo-Sn	As-Cu	Precamb_Seq	Vein	2	1825.609	0.10	3.06	1.31	1.75	2	Tasgeol
43043 Mt Ramsay	371950	5395500	ABM_RU	Au	Bi W Sn	Camb_Sed_Seq	Disseminated	0	12261.811	0.09	2.75	30.31	-27.56	1	Rockchem
37173 Mt Roland	437080	5410240	ABM_RK	Ag-Pb-Zn	Ba	MRV	Vein/Dissem	0	345.259	0.84	25.70	17.24	8.46	2	Tasgeol
43134 Mt Stewart	359050	5401950	ABM_RU	Pb-Ag		Camb_Ig_Seq	Vein	0	7790.361	0.85	26.01	33.92	-7.91	1	Tasgeol
40079 Mt Victoria	567700	5425400	ABM_RU	Au		Mathinna_Beds	Vein	0	15846.520	0.39	11.93	18.77	-6.84	1	Tasgeol
30156 Mt Vulcan	479900	5439000	ABM_RU	Fe- Cr-Oc	OC	Jur_Cen_Seq	Residual	0	411.254	0.13	3.98	0.10	3.88	2	Tasgeol
36006 Mt. Bischoff	376600	5412200	ABM_RK	Sn		Dev_Granitoid	Dissem/Repl	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
51144 Mt. Read Mining Co.	376650	5366150	ABM_RU	Pb	Zn-Ag-Au	MRV	Strat/VMS	3	0.000	22.50	688.50	11.76	676.74	3	Gurung
51070 Murchison River	385690	5376550	ABM_RK	Pb-Zn	Ag-Cu-As	MRV	Vein	3	85.440	0.36	11.02	27.56	-16.54	1	Rockchem
34011 Murrays Reward	324500	5429550	ABM_RU	Cu		Precamb_Seq	Vein	0	19.849	19.50	596.70	-3.43	600.13	3	Gurung
32113 Mutual Hill	569600	5444750	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	849.467	0.39	11.93	18.77	-6.84	1	Tasgeol
50296 Myrtle	364500	5352300	ABM_RU	Zn-Pb		Gordon_Lst	Replacement	0	1845.104	0.01	0.31	2.15	-1.84	1	Tasgeol
40035 National Investment	569350	5417850	ABM_RU	Au		Mathinna_Beds	Vein	0	11300.664	0.15	4.59	1.59	3.00	2	Mirloch
24024 Native Lass	580950	5466950	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	206.051	0.15	4.59	12.63	-8.04	1	Tasgeol
40069 Nelsons/Soft Spur Lodes	566900	5427950	ABM_RU	Au		Mathinna_Beds	Vein	0	14002.867	0.39	11.93	18.77	-6.84	1	Tasgeol
29034 Neptune Mine	424120	5447490	ABM_RU	Ag	Pb	MRV	Vein	0	456.502	0.85	26.01	33.92	-7.91	1	Tasgeol
30047 Never Go Bung	498800	5451300	ABM_RU	Au		Mathinna_Beds	Vein	0	85.000	0.20	6.12	3.72	2.40	2	Tasgeol
31042 Never Mind (Albion)	504450	5455670	ABM_RU	Au		Mathinna_Beds	Vein	0	723.464	0.33	10.10	8.60	1.50	2	Mirloch
31043 New Bonanza	526900	5436100	ABM_RU	Au		Jur_Cen_Seq	Vein	0	398.898	0.10	3.06	9.70	-6.64	1	Tasgeol
41004 New Carthage +A383	588200	5416400	ABM_RU	Au		Mathinna_Beds	Vein	0	1392.839	0.15	4.59	1.59	3.00	2	Mirloch
40016 New Eldorado (Ophir)	574400	5406000	ABM_RU	Au		Mathinna_Beds	Vein	2	1303.840	0.15	4.59	1.59	3.00	2	Mirloch
40051 New Golden King	576500	5411800	ABM_RU	Au		Mathinna_Beds	Vein	2	5464.430	0.15	4.59	1.59	3.00	2	Mirloch
41005 New Golden Ridge	585944	5415550	ABM_RU	Au		Mathinna_Beds	Vein	0	1812.743	0.15	4.59	1.59	3.00	2	Mirloch
50378 New Great Eastern	361590	5362550	ABM_RU	Pb-Zn		Gordon_Lst	Vein	0	341.716	0.31	9.49	7.10	2.39	2	Tasgeol
48040 New Henbury	565500	5380500	ABM_RU	Sn	Au	Jur_Cen_Seq	Placer	0	399.831	0.01	0.31	0.64	-0.33	1	Tasgeol
31080 New Industry	502800	5446500	ABM_RU	Au		Mathinna_Beds	Vein	0	3055.418	0.20	6.12	3.72	2.40	2	Tasgeol
30038 New Land O' Cakes	499100	5448400	ABM_RU	Au		Mathinna_Beds	Vein	0	492.172	0.20	6.12	3.72	2.40	2	Tasgeol
30194 New Main	484300	5438650	ABM_RU	Au		Jur_Cen_Seq	Vein	0	69.857	0.01	0.31	2.36	-2.05	1	Tasgeol
24011 New Monarch	550385	5468000	ABM_RU	Au		Mathinna_Beds	Vein	0	1948.910	0.01	0.31	5.00	-4.69	1	Tasgeol
30043 New Monarch	499580	5447510	ABM_RU	Au		Mathinna_Beds	Vein	0	649.086	0.20	6.12	3.72	2.40	2	Tasgeol
50364 New Mt Zeehan	361520	5361600	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	409.207	0.10	3.06	23.34	-20.28	1	Tasgeol
30046 New Native Youth	498830	5449960	ABM_RU	Au		Mathinna_Beds	Vein	0	693.141	0.01	0.31	0.64	-0.33	1	Tasgeol
50067 New Palace	375460	5366790	ABM_RU	Ag-Cu-Sb		Camb_Sed_Seq	Vein	1	89.308	0.29	8.87	7.10	1.77	2	Tasgeol
30053 New Pinafore	498600	5450900	ABM_RU	Au		Mathinna_Beds	Vein	0	516.551	0.20	6.12	3.72	2.40	2	Tasgeol
30112 New Providence	483700	5438800	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	215.801	0.01	0.31	2.36	-2.05	1	Tasgeol
30062 New Queens Birthday	499740	5448660	ABM_RU	Au		Mathinna_Beds	Vein	0	545.851	0.20	6.12	3.72	2.40	2	Tasgeol
40056 New River	566840	5429640	ABM_RU	Au		Mathinna_Beds	Vein	0	12651.787	0.39	11.93	18.77	-6.84	1	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
50245	New Silver Bell	362975	5359450	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	103.078	5.00	153.00	30.60	122.40	3	Mirloch
31023	New Treasure	504900	5455200	ABM_RU	Au		Mathinna_Beds	Vein	0	100.000	0.33	10.10	8.60	1.50	2	Mirloch
30074	New Waverley	498900	5448300	ABM_RU	Au		Mathinna_Beds	Vein	0	644.075	0.20	6.12	3.72	2.40	2	Tasgeol
30048	New Years Gift	499460	5448620	ABM_RU	Au		Mathinna_Beds	Vein	0	467.967	0.20	6.12	3.72	2.40	2	Tasgeol
24026	Newhaven	583950	5467050	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1389.475	0.15	4.59	12.63	-8.04	1	Tasgeol
50231	Nike	359950	5360870	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	270.185	5.00	153.00	30.60	122.40	3	Mirloch
50243	North Austral	362250	5359300	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50266	North Comstock	357600	5361200	ABM_RU	Pb-Zn-Ag		Precamb_Seq	Vein	0	23.000	0.30	9.18	-0.29	9.47	2	Gurung
40017	North Eldorado	574300	5406200	ABM_RU	Au		Mathinna_Beds	Vein	0	1345.362	0.15	4.59	1.59	3.00	2	Mirloch
40022	North Golden Gate	574500	5406700	ABM_RU	Au		Mathinna_Beds	Vein	3	1252.996	0.15	4.59	1.59	3.00	2	Mirloch
58175	North Lyell	383200	5343150	ABM_MO	Cu	Ag-Au	MRV	Disseminated	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
44054	North Mackintosh	386270	5380200	ABM_RU	Cu	Pb	MRV	Vein	0	731.708	7.80	238.68	36.26	202.42	3	Gurung
44056	North Mt Farrell	386050	5379510	ABM_RK	Pb-Ag	Zn-Cu-Sb	MRV	Vein	2	380.757	7.80	238.68	36.26	202.42	3	Gurung
44059	North Mt Farrell	385800	5379050	ABM_RU	Pb	Ag-Cu-Au-	MRV	Vein	0	460.977	5.00	153.00	30.60	122.40	3	Mirloch
44064	North Murchison Extended	385750	5377200	ABM_RU	Pb	Ag-Zn-Cu	MRV	Vein	0	562.228	0.16	4.90	27.56	-22.66	1	Rockchem
33021	North Musselroe P/L	590300	5460000	ABM_RU	Sn		Dev_Granitoid	Dissem/Resid	0	3060.915	0.01	0.31	2.15	-1.84	1	Tasgeol
65293	North Prince Darwin	382650	5319300	ABM_RU	Cu	Ba	MRV	Vein/Stock	0	655.183	0.67	20.50	8.11	12.39	2	Tasgeol
48016	North Republic	554900	5387000	ABM_RU	Sn		Dev_Granitoid	Vein/Dissem	0	200.000	0.10	3.06	0.65	2.41	2	Mirloch
25029	North Royal Standard	584700	5465100	ABM_RU	Au	Sn-W- As-Cu	Jur_Cen_Seq	Placer	0	1113.571	0.15	4.59	12.63	-8.04	1	Tasgeol
25015	North Tasman #1	584550	5464900	ABM_RU	Au	Sn-Cu-As	Mathinna_Beds	Vein	0	908.647	0.15	4.59	12.63	-8.04	1	Tasgeol
30113	North Tasmania	483215	5439700	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	540.008	1.71	52.33	32.34	19.99	2	Tasgeol
50274	North Tasmanian	358850	5359200	ABM_RU	Pb-Zn-Ag		Precamb_Seq	Vein	0	412.238	1.71	52.33	32.34	19.99	2	Tasgeol
36018	North Valley	376120	5412750	ABM_RU	Sn		Precamb_Seq	Disseminated	0	294.002	15.60	477.36	115.64	361.72	3	Gurung
31044	Northern Globe	525850	5445570	ABM_RU	Au		Mathinna_Beds	Vein	0	4097.205	0.10	3.06	9.70	-6.64	1	Tasgeol
32014	North Mara	561400	5446400	ABM_RU	Au		Mathinna_Beds	Vein	0	2438.284	0.15	4.59	12.63	-8.04	1	Tasgeol
24005	North Southern Cross	552400	5466100	ABM_RU	Au		Mathinna_Beds	Vein	0	844.313	0.01	0.31	5.00	-4.69	1	Tasgeol
50276	Nubeena	360570	5358950	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	488.774	5.00	153.00	30.60	122.40	3	Mirloch
30049	Nugget	499180	5450190	ABM_RU	Au		Mathinna_Beds	Vein	0	511.735	0.39	11.93	18.77	-6.84	1	Tasgeol
40036	O'Briens	569700	5417420	ABM_RU	Au		Mathinna_Beds	Vein	2	10775.175	0.15	4.59	1.59	3.00	2	Mirloch
50251	Oceana A	362200	5357500	ABM_RU	Pb-Zn-Ag		Gordon_Lst	Replacement	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50252	Oceana B	362240	5357380	ABM_RU	Pb-Zn-Ag		Gordon_Lst	Replacement	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50376	Oceana C	362300	5357600	ABM_RU	Pb-Zn		Gordon_Lst	Replacement	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
40043	October	570600	5414200	ABM_RU	Au		Mathinna_Beds	Vein	0	7446.476	0.15	4.59	1.59	3.00	2	Mirloch
48007	Old Battery	563300	5388600	ABM_RU	Sn	W	Mathinna_Beds	Vein	2	0.000	0.15	4.59	3.94	0.65	2	Mirloch
30050	Old Comrades	497300	5452100	ABM_RU	Au		Mathinna_Beds	Vein	0	1752.320	0.20	6.12	3.72	2.40	2	Tasgeol
31209	Old Den Reefs	505700	5442900	ABM_MO	Au		Mathinna_Beds	Vein	0	0.000	0.21	6.43	4.60	1.83	2	Mirloch
31066	Old Lease 1455-G Lisle	526000	5436500	ABM_RU	Au		Dev_Granitoid	Stock./Resid.	0	1298.430	0.10	3.06	9.70	-6.64	1	Tasgeol
30080	Old Shaft	483150	5439900	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	743.118	1.71	52.33	32.34	19.99	2	Tasgeol
30114	Olive Branch Adit	483950	5439050	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	494.540	0.01	0.31	2.36	-2.05	1	Tasgeol
30117	Olive Branch +A404	483550	5439000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	368.543	1.71	52.33	32.34	19.99	2	Tasgeol
50082	Olympic Mine	374690	5370820	ABM_RU	Sn	As-Cu-Au	Camb_Sed_Seq	Vein	2	1057.030	0.01	0.31	18.60	-18.29	1	Tasgeol
50016	Oonah	360200	5362600	ABM_RU	Pb-Ag-Sn	Zn-Cu-Bi-As	Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
30098	Ophir	484100	5439000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	416.389	0.01	0.31	2.36	-2.05	1	Tasgeol
50118	Ophir Creek Workings	352370	5357230	ABM_RU	Sn-As	Cu-An-B-MoW	Dev_Granitoid	DissemVein	2	288.640	0.10	3.06	-0.98	4.04	2	Gurung
30100	Orchards	484250	5439000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	341.585	0.01	0.31	2.36	-2.05	1	Tasgeol
41027	Orieco	601200	5413800	ABM_RU	Cu-As-Zn	Pb-Ag	Mathinna_Beds	Vein	0	67.082	0.60	18.36	0.00	18.36	2	Gurung
50113	Orient	352850	5357420	ABM_RU	Sn	Cu-Zn-As-Pb	Dev_Granitoid	Vein	0	708.119	0.10	3.06	-0.98	4.04	2	Gurung

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
30051	Orlando	499500	5447500	ABM_RU	Au		Mathinna_Beds	Vein	0	657.596	0.20	6.12	3.72	2.40	2	Tasgeol
32196	Ormuz	563400	5442900	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	169.499	0.15	4.59	12.63	-8.04	1	Tasgeol
45010	O'Rourke's Hydraulic	425070	5399200	ABM_RU	Au		Jur_Cen_Seq	Placer	0	461.260	0.42	12.85	4.81	8.04	2	Tasgeol
48067	Otowards Creek	571900	5393000	ABM_RU	Au		Mathinna_Beds	Vein	0	4710.408	0.16	4.90	6.26	-1.36	1	Tasgeol
50200	Owen Meredith	367010	5373100	ABM_RU	Pb-Ag	Zn	Precamb_Seq	Vein	0	2137.855	0.10	3.06	3.78	-0.72	1	Tasgeol
24052	P Cross; Cross P	582300	5466500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1242.078	0.15	4.59	12.63	-8.04	1	Tasgeol
50137	Packers Creek	347250	5357100	ABM_RU	Sn	Cu-As	Dev_Granitoid	Vein	0	2420.021	0.10	3.06	5.49	-2.43	1	Gurung
38005	Pandora	477100	5430600	ABM_RU	Cu		Precamb_Seq	Vein	0	6678.763	0.01	0.31	3.26	-2.95	1	Tasgeol
31047	Partridge Creek	529500	5441500	ABM_RU	Au		Mathinna_Beds	Disseminated	0	259.417	0.39	11.93	18.77	-6.84	1	Tasgeol
50299	Pastkuchen	359470	5362300	ABM_RU	Sn-Py		Precamb_Seq	Vein	0	0.000	0.22	6.73	2.60	4.13	3	Mirloch
50303	Paynes	361000	5361720	ABM_RU	Sn-Cu		Precamb_Seq	Vein	0	152.201	2.80	85.68	0.96	84.72	3	Gurung
30153	Peaked Hill	483000	5434000	ABM_RU	Fe		Jur_Cen_Seq	Residual	0	174.568	0.01	0.31	3.26	-2.95	1	Tasgeol
44047	Pearce Copper Reward	389000	5385300	ABM_RU	Cu-Pb	Zn-Ag-Au	MRV	Vein	0	3659.818	0.01	0.31	4.50	-4.19	1	Tasgeol
32015	Pearces	560600	5444850	ABM_RU	Au		Mathinna_Beds	Vein	0	2082.084	0.39	11.93	18.77	-6.84	1	Tasgeol
58251	Pearces Adit	384380	5323110	ABM_RU	Cu	Au-Ag-Pb	MRV	Disseminated	0	715.763	0.84	25.70	17.24	8.46	2	Tasgeol
30085	Peases Shaft	483150	5439700	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	544.265	1.71	52.33	32.34	19.99	2	Tasgeol
29010	Penguin Mine	423050	5447760	ABM_RU	Ag-Pb	Au-CuCoNI	MRV	Stock/Vein	1	425.960	0.01	0.31	2.15	-1.84	1	Tasgeol
40058	Pennefather	566600	5429500	ABM_RU	Au		Mathinna_Beds	Vein	0	12908.811	0.39	11.93	18.77	-6.84	1	Tasgeol
50088	Penzance	370500	5368500	ABM_RU	Sn		Camb_Sed_Seq	Vein	2	742.408	0.01	0.31	2.15	-1.84	1	Tasgeol
32066	Perennial	583700	5440600	ABM_RU	Sn		Dev_Granitoid	Dissem/Resid	0	2010.294	0.10	3.06	3.32	-0.26	1	Tasgeol
50143	Peripatetic	342750	5364850	ABM_RU	Sn	MD	Dev_Granitoid	Vein	0	4481.411	1.00	30.60	28.36	2.24	2	Tasgeol
50147	Peripatetic	342700	5364670	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	4662.549	1.00	30.60	28.36	2.24	2	Tasgeol
30052	Perpetual	498500	5451900	ABM_RU	Au		Mathinna_Beds	Vein	0	678.399	0.20	6.12	3.72	2.40	2	Tasgeol
36013	Persic	375100	5413700	ABM_RU	Pb		Precamb_Seq	Vein	0	1180.801	0.31	9.49	7.48	2.01	2	Tasgeol
50127	Phar Lap	350165	5359280	ABM_RU	Sn		Dev_Granitoid	Vein	0	1265.790	0.10	3.06	5.49	-2.43	1	Gurung
30107	Phoenix; Tasmania	484200	5438550	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	206.155	1.50	45.90	30.60	15.30	2	Mirloch
37021	Pig and Whistle	424750	5405750	ABM_RU	W	Bi-Sn	MRV	Vein	1	470.106	0.15	4.59	1.67	2.92	2	Mirloch
48060	Pincher (Rodman)	573860	5393830	ABM_RU	Au		Mathinna_Beds	Vein	0	4319.352	0.16	4.90	6.26	-1.36	1	Tasgeol
44020	Pinnacles Mine	377150	5383920	ABM_RK	Zn-Pb	Cu-Ag-Au	MRV	Vein	2	1032.763	0.47	14.38	10.31	4.07	2	Rockchem
24006	Pioneer	551400	5469000	ABM_RU	Au		Mathinna_Beds	Vein	0	2269.508	0.01	0.31	5.00	-4.69	1	Tasgeol
32022	Pioneer	577500	5452500	ABM_RU	Sn	Au	Jur_Cen_Seq	Placer	0	311.495	0.10	3.06	-3.75	6.81	2	Gurung
32065	Planet	583600	5438400	ABM_RU	Sn		Dev_Granitoid	Vein/Resid	0	921.954	0.37	11.32	8.74	2.58	2	Mirloch
48008	Plummers	561300	5386900	ABM_RU	Sn		Mathinna_Beds	Vein	2	869.253	0.18	5.51	5.63	-0.12	1	Tasgeol
25019	Portland; Brisbane	588820	5470330	ABM_RU	Au	As-Pb-Zn	Mathinna_Beds	Vein	0	3132.953	0.01	0.31	2.15	-1.84	1	Tasgeol
45011	Powerful	427100	5397700	ABM_RU	Au	Ag-Fe	Dev_Granitoid	Vein	0	227.853	0.10	3.06	26.97	-23.91	1	Tasgeol
40065	Premier	566830	5427890	ABM_RU	Au		Mathinna_Beds	Vein	0	14091.247	0.39	11.93	18.77	-6.84	1	Tasgeol
32177	Present	567000	5436500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	7424.549	0.15	4.59	12.63	-8.04	1	Tasgeol
37050	Preston Silver Mine	422200	5423950	ABM_RU	Ag	Pb-Zn	Camb_Sed_Seq	Vein	0	14528.496	0.84	25.70	17.24	8.46	2	Tasgeol
48041	Pride of the Hills	573300	5405300	ABM_RU	Au	As-Pb	Mathinna_Beds	Vein	0	0.000	0.15	4.59	1.59	3.00	2	Mirloch
65298	Prince Darwin Mine	382750	5318450	ABM_RU	Cu-Ag-Py	HEM-Mag	MRV	Disseminated	0	879.582	0.67	20.50	8.11	12.39	2	Tasgeol
50130	Prince George	348360	5359350	ABM_RU	Sn-W		Dev_Granitoid	Vein	2	1421.724	0.10	3.06	5.49	-2.43	1	Gurung
25020	Prince Imperial	589100	5474000	ABM_RU	Au		Mathinna_Beds	Vein	0	681.657	0.01	0.31	2.15	-1.84	1	Tasgeol
58181	Prince Lyell	382800	5341900	OPM	Cu	Ag-Au	MRV	Disseminated	4	0.000	3.80	116.28	23.52	92.76	3	Gurung
30058	Prince of Wales	499860	5449430	ABM_RU	Au		Mathinna_Beds	Vein	0	471.170	0.01	0.31	0.64	-0.33	1	Tasgeol
30059	Princess Alice	498890	5449200	ABM_RU	Au		Mathinna_Beds	Vein	0	473.165	0.01	0.31	0.64	-0.33	1	Tasgeol
58203	Princess River	377900	5336200	ABM_RU	Au		Precamb_Seq	Vein	4	1344.954	5.00	153.00	30.60	122.40	3	Mirloch
50298	Professor Range	366400	5351200	ABM_RU	Zn-Pb		Gordon_Lst	Replacement	0	350.443	0.01	0.31	2.15	-1.84	1	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
25058	Purdue	587200	5461500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	306.472	0.15	4.59	12.63	-8.04	1	Tasgeol
46001	Quamby Copper	475000	5393700	ABM_RU	Cu-Ag	Au-NI	Camb_Ig_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
44003	Que River	391550	5393500	ABM_RK	Zn-Pb	Cu-Ag-Au	MRV	VMS	5	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50356	Queen Extended	360420	5361600	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	150.083	30.90	945.54	56.84	888.70	3	Gurung
41007	Queen of the Earth	587700	5415100	ABM_RU	Au	As-Zn-Pb	Mathinna_Beds	Vein	2	0.000	0.15	4.59	1.59	3.00	2	Mirloch
30102	Queens	484300	5438900	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	231.041	0.01	0.31	2.36	-2.05	1	Tasgeol
57005	Queensberry	366500	5344900	ABM_RK	Zn-Pb	Ag Cu As	Camb_Ig_Seq	Vein	3	6481.791	0.01	0.31	2.15	-1.84	1	Tasgeol
24007	Railway	550750	5468450	ABM_RU	Au		Mathinna_Beds	Vein	0	2027.108	0.01	0.31	5.00	-4.69	1	Tasgeol
32191	Rainbows	568000	5457700	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	7695.131	0.10	3.06	16.87	-13.81	1	Tasgeol
32119	Rajah	580500	5447500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1862.476	0.15	4.59	12.63	-8.04	1	Tasgeol
50053	Ramsdale Prospect	372190	5365300	ABM_RU	Pb-Ag-As	Bi	Camb_Sed_Seq	Stockwork	0	958.019	5.00	153.00	30.60	122.40	3	Mirloch
33007	Ransom	586150	5436200	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	1478.007	0.10	3.06	18.62	-15.56	1	Gurung
50021	Razorback	369200	5363700	ABM_RU	Sn		Camb_Ig_Seq	Replacement	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
58281	Razorback	383000	5341900	ABM_MO	Cu	Ag-Au	MRV	Disseminated	0	200.000	5.00	153.00	30.60	122.40	3	Mirloch
32016	Rebel	560800	5444850	ABM_RU	Au		Mathinna_Beds	Vein	0	1918.404	0.39	11.93	18.77	-6.84	1	Tasgeol
30060	Recruit	496500	5451500	ABM_RU	Au		Mathinna_Beds	Vein	0	2382.651	0.20	6.12	3.72	2.40	2	Tasgeol
30061	Recruit (East)	496600	5451500	ABM_RU	Au		Mathinna_Beds	Vein	0	2282.898	0.20	6.12	3.72	2.40	2	Tasgeol
51102	Red Hills Copper	382700	5365800	ABM_RU	Cu-Pb	Zn-Ag-Au	MRV	Disseminated	0	314.302	0.67	20.50	8.11	12.39	2	Tasgeol
31049	Red Lead	505000	5455200	ABM_RU	Au	Cu	Jur_Cen_Seq	Placer	0	0.000	0.33	10.10	8.60	1.50	2	Mirloch
50057	Red Lead	369750	5361130	ABM_RU	Pb-Ag	Zn-Crocoite	Camb_Sed_Seq	Vein/Repl	2	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50022	Renison	370000	5371400	OPM	Sn	Cu-As	Camb_Sed_Seq	Vein/Repl	5	0.000	5.00	153.00	30.60	122.40	3	Mirloch
32017	Renown	562100	5448990	ABM_RU	Au		Mathinna_Beds	Vein	0	121.413	0.39	11.93	18.77	-6.84	1	Tasgeol
40041	Revenue	569850	5415350	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	8798.011	0.15	4.59	1.59	3.00	2	Mirloch
48018	Rex Hill	555250	5381700	ABM_RK	Sn	Ag Pb Zn	Dev_Granitoid	Pipe	3	376.563	0.07	2.14	20.58	-18.44	1	Tasgeol
50043	Rich P.A	374270	5367750	ABM_RU	Ag-Cu	Pb-Bi-Sb-As	Camb_Sed_Seq	Vein	2	0.000	5.00	153.00	30.60	122.40	3	Mirloch
30139	Richards	484300	5439100	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	426.825	0.01	0.31	2.36	-2.05	1	Tasgeol
24051	Richards and Murray	582200	5466800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1061.205	0.15	4.59	12.63	-8.04	1	Tasgeol
24021	Richardsons	580900	5469150	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	600.517	0.01	0.31	2.15	-1.84	1	Tasgeol
48054	Richardsons Creek	571300	5395800	ABM_RU	Au		Mathinna_Beds	Vein	0	2021.471	0.16	4.90	6.26	-1.36	1	Tasgeol
30063	Rifleman	497100	5449100	ABM_RU	Au		Mathinna_Beds	Vein	0	1380.487	0.01	0.31	0.64	-0.33	1	Tasgeol
48077	Rilstons Lode	555100	5385800	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	246.479	0.16	4.90	6.26	-1.36	1	Tasgeol
51097	Ring P.A.	376320	5368000	ABM_RU	Cu-Pb	Zn-Ag-Ba	MRV	Strat/VMS	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
40086	Ringarooma United	566700	5428200	ABM_RU	Au		Mathinna_Beds	Vein	0	13904.395	0.39	11.93	18.77	-6.84	1	Tasgeol
30121	Rising Sun	485000	5437600	ABM_RU	Au	Cu Ag	Owen_Cong/Moina_Sst	Vein	0	1122.463	0.39	11.93	6.26	5.67	2	Tasgeol
32168	Rising Sun	583700	5439400	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	1219.705	0.10	3.06	3.32	-0.26	1	Tasgeol
32197	Riverside	581000	5458000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2255.837	0.15	4.59	12.63	-8.04	1	Tasgeol
30064	Rob Roy	499130	5448390	ABM_RU	Au		Mathinna_Beds	Vein	0	461.187	0.20	6.12	3.72	2.40	2	Tasgeol
43051	Rocky River Mine	349100	5390000	ABM_RU	Au-Fe-Ag	Mag-Cu-NiAs	Precamb_Seq	Stratiform	0	223.607	1.30	39.78	69.46	-29.68	1	Rockchem
32102	Roma	562700	5443600	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	110.635	0.15	4.59	12.63	-8.04	1	Tasgeol
40064	Rosalind; Gumsucker	566780	5427940	ABM_RU	Au		Mathinna_Beds	Vein	0	14076.606	0.39	11.93	18.77	-6.84	1	Tasgeol
51066	Rosebery	378800	5374300	OPM	Zn-Pb	Cu-Ag-Au	MRV	Strat/VMS	5	0.000	5.00	153.00	30.60	122.40	3	Mirloch
51088	Rosebery Lodes	378900	5371900	ABM_RU	Ag-Pb	Au-Zn-Cu	MRV	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
25035	Ross' Reef	591300	5472900	ABM_RU	Au	Pb-Zn-As-Ag	Mathinna_Beds	Vein	0	2675.267	0.01	0.31	2.15	-1.84	1	Tasgeol
37037	Round Hill	429100	5407080	ABM_RU	Ag	Pb Au	Owen_Cong/Moina_Sst	Vein	0	396.104	0.70	21.42	-2.94	24.36	3	Gurung
37039	Round Hill Central (A)	429290	5406770	ABM_RU	Ag	Pb-Au	Owen_Cong/Moina_Sst	Vein	0	86.128	0.70	21.42	-2.94	24.36	3	Gurung
37063	Round Hill Central (B)	429250	5406950	ABM_RU	Ag	Pb-Au	Owen_Cong/Moina_Sst	Vein	0	199.444	0.70	21.42	-2.94	24.36	3	Gurung
37041	Round Hill Extended	429750	5406100	ABM_RU	Ag	Pb-Zn-Au	Owen_Cong/Moina_Sst	Vein/Dissem	0	299.588	0.12	3.67	6.25	-2.58	1	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
37040	Round Hill Main	429400	5407000	ABM_RU	Ag	Pb Au	Owen_Cong/Moina_Sst	Vein	0	208.753	0.70	21.42	-2.94	24.36	3	Gurung
37038	Round Hill West	428990	5407000	ABM_RU	Ag	Pb-Au	Owen_Cong/Moina_Sst	Vein	0	435.360	0.70	21.42	-2.94	24.36	3	Gurung
24054	Roy	581000	5469800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1223.242	0.01	0.31	2.15	-1.84	1	Tasgeol
55010	Roy Hill	569725	5367900	ABM_RU	Sn		Mathinna_Beds	Vein	0	83.869	0.20	6.12	3.72	2.40	2	Tasgeol
51248	Royal Dora	387480	5354690	ABM_RU	Cu	Py	MRV	Disseminated	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
55001	Royal George	573500	5368300	ABM_RU	Sn	U	Dev_Granitoid	Disseminated	0	748.829	0.10	3.06	3.32	-0.26	1	Tasgeol
32042	Royal Gordon	562200	5439500	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	3708.322	0.39	11.93	18.77	-6.84	1	Tasgeol
25021	Royal Mint	584680	5464580	ABM_RU	Au	Sn	Mathinna_Beds	Vein	0	878.009	0.15	4.59	12.63	-8.04	1	Tasgeol
25027	Royal Tasman 2	584730	5464700	ABM_RU	Au		Mathinna_Beds	Vein	0	964.510	0.15	4.59	12.63	-8.04	1	Tasgeol
58179	Royal Tharsis	382800	5342700	ABM_RK	Cu	Ag-Au	MRV	Disseminated	4	0.000	5.00	153.00	30.60	122.40	3	Mirloch
28027	Rutherford	409300	5442600	ABM_RU	Cu		Camb_Sed_Seq	Vein	0	4595.380	0.12	3.67	6.25	-2.58	1	Tasgeol
32206	South Endurance	578000	5458000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	0.000	1.21	37.03	15.60	21.43	3	Mirloch
30110	Salisbury	487000	5433700	ABM_RU	Au	NI Cr	Owen_Cong/Moina_Sst	Vein	0	3368.905	0.39	11.93	6.26	5.67	2	Tasgeol
51087	Salisbury	377700	5371750	ABM_RU	Pb-Zn	Cu-Ag-Au	MRV	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
32121	Salters (Waugh)	580950	5449800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	419.981	0.10	3.06	16.87	-13.81	1	Tasgeol
35049	Savage River North	350400	5407500	OPM	Fe		Precamb_Seq	Stratiform	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50054	Sawmill Wallace West Pr	372610	5365240	ABM_RU	Pb-Zn-Ag	As-Sb	Camb_Sed_Seq	Vein	0	1184.314	5.00	153.00	30.60	122.40	3	Mirloch
41032	Scamander River	604750	5409250	ABM_RU	Ag-Pb-Zn	As-Cu	Dev_Granitoid	Vein/Stock	0	107.870	0.10	3.06	9.70	-6.64	1	Tasgeol
40078	Scotchman	567500	5425950	ABM_RU	Au		Mathinna_Beds	Vein	0	15440.761	0.39	11.93	18.77	-6.84	1	Tasgeol
24027	Scotia	583950	5466300	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1080.343	0.15	4.59	12.63	-8.04	1	Tasgeol
48042	Scott and Pickett	573200	5404700	ABM_RU	Au		Mathinna_Beds	Vein	0	608.276	0.15	4.59	1.59	3.00	2	Mirloch
30155	Scotts Hill	479500	5439500	ABM_RU	Fe-Cr-Oc	OC	Jur_Cen_Seq	Residual	0	468.327	0.13	3.98	0.10	3.88	2	Tasgeol
24062	Sea Shell Face	579000	5469400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	275.937	0.01	0.31	2.15	-1.84	1	Tasgeol
31070	Section 1656-G Panama	524400	5445000	ABM_RU	Au	Pb-As-Zn	Mathinna_Beds	Vein	0	3719.090	0.10	3.06	9.70	-6.64	1	Tasgeol
44033	Section 1726	379500	5379800	ABM_RU	Cu	Pb	MRV	Disseminated	0	396.989	0.40	12.24	7.58	4.66	2	Rockchem
50134	Section 2014/M	348810	5357930	ABM_RU	Sn		Dev_Granitoid	Vein	0	658.027	0.10	3.06	5.49	-2.43	1	Gurung
51001	Section 3104M	414500	5375200	ABM_MO	Au		Precamb_Seq	Vein	0	6009.330	0.10	3.06	1.31	1.75	2	Tasgeol
32217	Seidenberg & Williams	563800	5443400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	472.155	0.15	4.59	12.63	-8.04	1	Tasgeol
37013	Shepherd & Murphy Alluv	423490	5406150	ABM_RU	Sn	W -Bi	Jur_Cen_Seq	Placer	0	317.227	0.10	3.06	1.29	1.77	2	Gurung
37012	Shepherd & Murphy	423330	5406450	ABM_RK	Sn-Bi-W	Mo-FL-Fe-LI	Owen_Cong/Moina_Sst	Vein	3	0.000	1.50	45.90	30.60	15.30	2	Mirloch
43057	Shores Success	349700	5402300	ABM_RU	Au		Precamb_Seq	Vein	0	5246.904	5.00	153.00	30.60	122.40	3	Mirloch
36014	Silver Cliffs	375050	5412950	ABM_RU	Pb		Precamb_Seq	Vein	0	752.788	0.31	9.49	7.48	2.01	2	Tasgeol
50375	Silver Duke	360200	5357560	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50275	Silver Foam	360410	5359575	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	20.616	5.00	153.00	30.60	122.40	3	Mirloch
50237	Silver King	362550	5360500	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50377	Silver King Extended	362130	5351500	ABM_RU	Pb-Zn		Gordon_Lst	Vein	0	3965.165	0.01	0.31	2.15	-1.84	1	Tasgeol
50401	Silver Queen Extended	360120	5360780	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	141.421	5.00	153.00	30.60	122.40	3	Mirloch
50215	Silver Spray	360290	5360040	ABM_RK	Pb-Ag	Sb-Zn-Cu-Sn	Precamb_Seq	Vein	3	0.000	6.60	201.96	0.29	201.67	3	Gurung
50265	Silver Stream	356050	5360850	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	487.411	0.16	4.90	12.26	-7.36	1	Tasgeol
50380	Simsons	360800	5363240	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	314.006	5.00	153.00	30.60	122.40	3	Mirloch
31017	Sir John Franklin	504600	5455800	ABM_RU	Au		Mathinna_Beds	Vein	0	721.110	0.33	10.10	8.60	1.50	2	Mirloch
31050	Sir John Franklin	504300	5456000	ABM_RU	Au	Cu	Mathinna_Beds	Vein	0	1063.015	0.33	10.10	8.60	1.50	2	Mirloch
31051	Sir William Denison	525100	5445700	ABM_RU	Au	Pb	Mathinna_Beds	Vein	0	4286.048	0.10	3.06	9.70	-6.64	1	Tasgeol
35042	Six O's	373000	5411900	ABM_RU	Ag-Pb		MRV	Vein	0	2889.860	0.31	9.49	7.48	2.01	2	Tasgeol
58254	Souters Adit	384300	5322760	ABM_RU	Cu	Ag	MRV	Disseminated	0	760.000	5.00	153.00	30.60	122.40	3	Mirloch
43136	South Bischoff B	371100	5402000	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	7370.207	0.30	9.18	10.78	-1.60	1	Tasgeol
50268	South Comstock	357400	5360300	ABM_RU	Pb-Zn-Ag		Precamb_Seq	Vein	0	0.000	28.40	869.04	1.37	867.67	3	Gurung

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
50101	South Curtin Davis	372510	5365930	ABM_RU	Ag-Zn-Pb	Bi-As-Cu	Camb_Sed_Seq	Vein	2	626.498	5.00	153.00	30.60	122.40	3	Mirloch
51083	South Glenfine	376200	5370900	ABM_RU	Py		MRV	Vein	0	1029.563	0.20	6.12	1.58	4.54	2	Rockchem
48069	South Golden Entrance	575000	5392500	ABM_RU	Au		Mathinna_Beds	Vein	0	6031.048	0.16	4.90	6.26	-1.36	1	Tasgeol
44060	South Mackintosh Mine	385930	5379300	ABM_RU	Pb	Zn-Ag	MRV	DissemVein	0	398.648	2.20	67.32	28.42	38.90	3	Gurung
44269	South Mt Farrell	385500	5378300	ABM_RU	Pb	Zn-Ag	MRV	Vein/Dissem	0	101.119	0.67	20.50	8.11	12.39	2	Tasgeol
58291	South Mt Lyell	384300	5322000	ABM_RU	Cu-Py	Au Ag	MRV	VMS	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
51071	South Murchison	385500	5375800	ABM_RU	Pb	Zn	MRV	Vein	0	101.980	0.22	6.73	27.56	-20.83	1	Rockchem
51145	South Murchison Mine	385300	5376500	ABM_RU	Pb	Ag	MRV	Vein	0	149.305	0.01	0.31	4.50	-4.19	1	Tasgeol
50279	South Nubeena	360950	5358650	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	801.561	5.00	153.00	30.60	122.40	3	Mirloch
65301	South Prince Darwin	382500	5317400	ABM_RU	Py	Fe-HEM	MRV	Vein	0	1660.712	0.67	20.50	8.11	12.39	2	Tasgeol
25033	South Royal Mint	584800	5464200	ABM_RU	Au	Sn	Mathinna_Beds	Vein	0	842.777	0.15	4.59	12.63	-8.04	1	Tasgeol
40082	South Star	567200	5424300	ABM_RU	Au		Mathinna_Beds	Vein	0	17054.683	0.39	11.93	18.77	-6.84	1	Tasgeol
58283	South Tharsis	382900	5342850	ABM_RU	Cu	Au-Ag-Py	MRV	Disseminated	0	145.086	0.15	4.59	6.25	-1.66	1	Tasgeol
24008	Southern Cross	552210	5465750	ABM_RU	Au		Mathinna_Beds	Vein	0	1080.891	0.01	0.31	5.00	-4.69	1	Tasgeol
32058	Southern Cross	583650	5438800	ABM_RU	Sn		Dev_Granitoid	Residual	3	1086.545	0.10	3.06	3.32	-0.26	1	Tasgeol
31052	Southern Globe	525860	5445420	ABM_RU	Au		Mathinna_Beds	Vein	0	3947.329	0.10	3.06	9.70	-6.64	1	Tasgeol
30065	Specimen Hill	499800	5448900	ABM_RU	Au		Mathinna_Beds	Vein	0	791.222	0.20	6.12	3.72	2.40	2	Tasgeol
48066	Specimen Hill	573130	5393300	ABM_RU	Au		Mathinna_Beds	Vein	0	4562.053	0.16	4.90	6.26	-1.36	1	Tasgeol
35005	Specimen Reef	352030	5411100	ABM_RU	Au		Precamb_Seq	Vein	0	3617.253	0.60	18.36	9.96	8.40	2	Gurung
50139	Spencer Bros Workings	347350	5357450	ABM_RU	Sn	Cu-As	Dev_Granitoid	Vein	0	2171.866	0.10	3.06	5.49	-2.43	1	Gurung
50015	Spray	360300	5360100	ABM_RU	Pb-Ag	Au	Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
37058	Squib Open Cut	425980	5406560	ABM_RU	W	Mo-Bi-Sn-Au	Dev_Granitoid	Vein	0	1025.905	0.10	3.06	3.78	-0.72	1	Tasgeol
37024	Squib or Gurs	425820	5406640	ABM_RU	W	Mo Bi Au	Dev_Granitoid	Vein	0	1190.698	0.10	3.06	3.78	-0.72	1	Tasgeol
50182	St Clair Creek Working	342100	5363150	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	6270.078	1.00	30.60	28.36	2.24	2	Tasgeol
50179	St Dizier Alluvial Workings	344750	5367830	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	933.126	1.00	30.60	28.36	2.24	2	Tasgeol
50177	St Dizier Creek Workings	346200	5366850	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1200.530	1.00	30.60	28.36	2.24	2	Tasgeol
55044	St Pauls River	575000	5369600	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2068.948	0.10	3.06	3.32	-0.26	1	Tasgeol
48078	St Aubyns	555200	5385100	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	470.772	0.16	4.90	6.26	-1.36	1	Tasgeol
30092	Stanley	484800	5439200	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	680.132	0.01	0.31	2.36	-2.05	1	Tasgeol
43142	Stanley Reward	358800	5382200	ABM_RU	Sn-Pb-Zn	Ag	Dev_Granitoid	Disseminated	0	0.000	0.40	12.24	10.40	1.84	2	Mirloch
50301	Stannite Lodes	360090	5362470	ABM_RU	Sn-Cu		Precamb_Seq	Vein	0	170.294	5.00	153.00	30.60	122.40	3	Mirloch
30094	Star	484300	5438450	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	180.278	1.50	45.90	30.60	15.30	2	Mirloch
31053	Star	524900	5445700	ABM_RU	Au		Mathinna_Beds	Vein	0	4323.634	0.10	3.06	9.70	-6.64	1	Tasgeol
25042	Star Hill	587700	5465150	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	0.000	0.38	11.63	1.32	10.31	2	Mirloch
25052	Star Hill	586650	5461700	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	296.522	0.15	4.59	12.63	-8.04	1	Tasgeol
40021	Star of Mathinna	574600	5407200	ABM_RU	Au		Mathinna_Beds	Vein	0	1204.159	0.15	4.59	1.59	3.00	2	Mirloch
32025	Star of Peace	571900	5433600	ABM_RU	Sn		Dev_Granitoid	Vein	0	6643.929	0.39	11.93	18.77	-6.84	1	Tasgeol
40038	Starlight	570600	5417900	ABM_RU	Au	Ag	Mathinna_Beds	Vein	0	10963.576	0.15	4.59	1.59	3.00	2	Mirloch
51093	Sterling Valley Mine	383790	5371860	ABM_RU	Pb-Ag	As-Zn-Au	MRV	Vein	2	0.000	5.00	153.00	30.60	122.40	3	Mirloch
51150	Sterling Valley Sn	384280	5374200	ABM_RU	Sn	As-Au	MRV	Vein	0	366.197	0.10	3.06	30.00	-26.94	1	Rockchem
25024	South Royal Standard A	584750	5464750	ABM_RU	Au		Mathinna_Beds	Vein	0	1002.567	0.15	4.59	12.63	-8.04	1	Tasgeol
50272	Stonehenge	358140	5359525	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	279.946	0.61	18.67	12.26	6.41	2	Tasgeol
48010	Storeys Creek	560800	5390300	ABM_MO	W	Sn-Py	Mathinna_Beds	Vein	4	0.000	0.19	5.81	3.60	2.21	2	Mirloch
37010	Stormont Gold Mine	418940	5405510	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	356.788	0.10	3.06	73.40	-70.34	1	Tasgeol
50304	Stormsdown	360700	5361890	ABM_RU	Sn-Cu	Py	Precamb_Seq	Vein	0	0.000	5.10	156.06	-3.23	159.29	3	Gurung
40070	Strahan	566900	5427800	ABM_RU	Au		Mathinna_Beds	Vein	0	14129.182	0.39	11.93	18.77	-6.84	1	Tasgeol
40031	Strickland	567850	5419900	ABM_RU	Au		Mathinna_Beds	Vein	0	13768.170	0.15	4.59	1.59	3.00	2	Mirloch

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
32061	Summit	583550	5437800	ABM_RU	Sn		Dev_Granitoid	Vein	0	335.410	0.37	11.32	8.74	2.58	2	Mirloch
33011	Sun Flat	585000	5440000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2650.902	0.10	3.06	3.32	-0.26	1	Tasgeol
48043	Sunbeam (Reef)	573900	5401350	ABM_RU	Au		Mathinna_Beds	Vein	0	636.553	0.01	0.31	3.26	-2.95	1	Tasgeol
50246	Sunrise	363250	5359125	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	316.294	0.26	7.96	7.05	0.91	2	Tasgeol
32073	Surprise	570500	5434500	ABM_RU	Sn		Dev_Granitoid	Vein	0	6567.846	0.39	11.93	18.77	-6.84	1	Tasgeol
50269	Susanite	358300	5360400	ABM_RU	Pb-Ag		Camb_Ig_Seq	Vein	0	770.133	0.61	18.67	12.26	6.41	2	Tasgeol
30140	Suttons	484000	5439000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	471.985	0.01	0.31	2.36	-2.05	1	Tasgeol
50058	Svengali Mine	374785	5366450	ABM_RU	Cu-Ag-Sb	Zn	Camb_Sed_Seq	Vein	1	844.453	0.29	8.87	7.10	1.77	2	Tasgeol
50056	SW Curtin Davis	372680	5366300	ABM_RU	Cu-Ag-Sb-Bi	As-Pb-Zn	Camb_Sed_Seq	Vein	2	644.438	5.00	153.00	30.60	122.40	3	Mirloch
58162	Swan Creek	378950	5346750	ABM_RU	Au		Jur_Cen_Seq	Placer	0	460.601	0.36	11.02	0.06	10.96	2	Tasgeol
50121	Sweeneys	351150	5358270	ABM_RU	Sn-Ag-Zn	Sb-Pb	Dev_Granitoid	Disseminated	3	0.000	0.10	3.06	1.62	1.44	2	Mirloch
30141	Swifts Limonite	483000	5440500	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	1357.617	1.71	52.33	32.34	19.99	2	Tasgeol
50223	Sylvester	358300	5361300	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
30066	Tablier	499200	5449210	ABM_RU	Au		Mathinna_Beds	Vein	0	743.855	0.01	0.31	0.64	-0.33	1	Tasgeol
43058	Talking Adit	349600	5401990	ABM_RU	Au		Precamb_Seq	Vein	0	5567.773	5.00	153.00	30.60	122.40	3	Mirloch
25059	Tamar	586700	5465400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1030.776	0.38	11.63	1.32	10.31	2	Mirloch
65307	Tasman Darwin	382150	5316350	ABM_RU	Cu		MRV	Disseminated	0	2654.329	0.67	20.50	8.11	12.39	2	Tasgeol
65306	Tasman Darwin Extended	382600	5316780	ABM_RU	Cu		MRV	Vein	0	2286.238	0.67	20.50	8.11	12.39	2	Tasgeol
50180	Tasman River	345000	5369000	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	268.226	1.00	30.60	28.36	2.24	2	Tasgeol
30144	Tasmania Ophir	484180	5438970	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	345.138	0.01	0.31	2.36	-2.05	1	Tasgeol
50225	Tasmanian Crown	361280	5363080	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
29043	Tasmanian Iron Mine A	419250	5446200	ABM_RU	Fe	Hem-Lim	Precamb_Seq	Vein	0	3681.869	0.01	0.31	2.15	-1.84	1	Tasgeol
29046	Tasmanian Iron Mine D	419100	5445630	ABM_RU	Fe	Hem-Lim	Precamb_Seq	VMS	0	4063.496	0.01	0.31	2.15	-1.84	1	Tasgeol
29047	Tasmanian Iron Mine E	419350	5445270	ABM_RU	Fe	Hem-Lim	Precamb_Seq	VMS	0	4041.846	0.01	0.31	2.15	-1.84	1	Tasgeol
29044	Tasmanian Iron Mines B	419500	5446050	ABM_RU	Fe	Hem-Lim	Precamb_Seq	VMS	0	3514.820	0.01	0.31	2.15	-1.84	1	Tasgeol
29045	Tasmanian Iron Mines C	419150	5445800	ABM_RU	Fe	Hem-Lim	Precamb_Seq	VMS	0	3939.640	0.01	0.31	2.15	-1.84	1	Tasgeol
24018	Taylor	580900	5470100	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1531.705	0.01	0.31	2.15	-1.84	1	Tasgeol
50302	Taylors Lode	360800	5361900	ABM_RU	Sn-Cu		Precamb_Seq	Vein	0	100.499	5.10	156.06	-3.23	159.29	3	Gurung
58186	The Blow	383300	5341500	ABM_RK	Cu-Py-Au	Ag	MRV	VMS	4	0.000	5.00	153.00	30.60	122.40	3	Mirloch
51075	Thomas Blocks	385350	5375180	ABM_RK	Pb	Ag-Zn-Cu	MRV	Vein	2	641.950	0.22	6.73	27.56	-20.83	1	Rockchem
37098	Thomas Shaft	428620	5408180	ABM_RU	Sn	Au	MRV	Disseminated	0	444.342	0.36	11.02	0.06	10.96	2	Tasgeol
65291	Thompsons P.A.	383650	5320100	ABM_RU	Cu		MRV	Vein	0	1926.776	0.67	20.50	8.11	12.39	2	Tasgeol
36020	Thomsons Lode	376280	5412120	ABM_RU	Sn		Precamb_Seq	Disseminated	0	239.019	1.10	33.66	10.86	22.80	3	Gurung
43060	Thureaus Tunnel	349850	5402670	ABM_RU	Au		Precamb_Seq	Vein	0	4861.214	5.00	153.00	30.60	122.40	3	Mirloch
40193	Tiger	567300	5429700	ABM_RU	Au		Mathinna_Beds	Vein	0	12330.409	0.39	11.93	18.77	-6.84	1	Tasgeol
50273	TLE	358020	5359200	ABM_RU	Pb-Zn-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
48025	To Go Tin Mining	562100	5379900	ABM_RU	Sn		Dev_Granitoid	Vein/Dissem	0	3759.078	0.01	0.31	0.64	-0.33	1	Tasgeol
48047	Tower Hill Freehold	572200	5397600	ABM_RU	Au		Mathinna_Beds	Vein	0	262.191	0.16	4.90	6.26	-1.36	1	Tasgeol
48045	Tower Hill Mine	573400	5401250	ABM_RU	Au		Mathinna_Beds	Vein	0	128.062	0.01	0.31	3.26	-2.95	1	Tasgeol
25049	Traceys	590450	5464050	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	2657.078	0.10	3.06	9.70	-6.64	1	Tasgeol
30099	Tresizes	484200	5439000	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	361.359	0.01	0.31	2.36	-2.05	1	Tasgeol
48075	Triabunna	554000	5385800	ABM_RU	Sn-W		Dev_Granitoid	Vein	0	476.820	0.18	5.51	5.63	-0.12	1	Tasgeol
40084	True Blue	572400	5410120	ABM_RU	Au		Mathinna_Beds	Vein	0	2992.056	0.15	4.59	1.59	3.00	2	Mirloch
51078	Tullah Silver Lead	385860	5374760	ABM_RU	Pb	Zn-Ag	MRV	Vein	0	35.847	0.43	13.16	30.00	-16.84	1	Rockchem
44319	Tullibardine	389100	5385200	ABM_RU	Cu	Ag	Camb_Sed_Seq	Vein	0	3609.026	0.01	0.31	4.50	-4.19	1	Tasgeol
51069	Turleys	384550	5373650	ABM_RU	Cu	As-Pb-Sn	MRV	Vein	0	160.078	1.71	52.33	32.34	19.99	2	Tasgeol
48046	Twilight	573500	5402300	ABM_RU	Au		Mathinna_Beds	Vein	0	1078.378	0.01	0.31	3.26	-2.95	1	Tasgeol

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
51109	Tyndall Mine	380500	5359350	ABM_RU	Pb-Zn	Cu-Ag-As	MRV	Vein	0	378.968	1.22	37.33	31.36	5.97	2	Tasgeol
48062	Underlay	574460	5393200	ABM_RU	Au		Mathinna_Beds	Vein	0	5155.590	0.16	4.90	6.26	-1.36	1	Tasgeol
31056	Union	505140	5455400	ABM_RU	Au	Pb-Ag	Mathinna_Beds	Vein	0	244.131	0.33	10.10	8.60	1.50	2	Mirloch
48061	Union Jack	574400	5393760	ABM_RU	Au		Mathinna_Beds	Vein	0	4641.804	0.16	4.90	6.26	-1.36	1	Tasgeol
30067	United Miner	499900	5450600	ABM_RU	Au	Pb-Ag	Mathinna_Beds	Vein	0	321.081	0.39	11.93	18.77	-6.84	1	Tasgeol
30068	Unity	497640	5451110	ABM_RU	Au		Mathinna_Beds	Vein	0	1257.476	0.20	6.12	3.72	2.40	2	Tasgeol
50220	Unknown	356440	5361220	ABM_RU	Pb-Ag	Pb-Ag	Precamb_Seq	Vein	2	665.003	0.16	4.90	12.26	-7.36	1	Tasgeol
24010	Unnamed	552200	5467100	ABM_RU	Au		Mathinna_Beds	Vein	0	423.869	0.01	0.31	5.00	-4.69	1	Tasgeol
24012	Unnamed	550910	5468710	ABM_RU	Au	Sn	Mathinna_Beds	Vein	0	2166.621	0.01	0.31	5.00	-4.69	1	Tasgeol
25044	Unnamed	586150	5465200	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	1240.836	0.15	4.59	12.63	-8.04	1	Tasgeol
32190	Unnamed	579200	5442630	ABM_RU	Sn	Sn		Vein	0	5001.602	0.10	3.06	3.32	-0.26	1	Tasgeol
58293	Unnamed	379600	5330900	ABM_RU	Au		MRV	Vein	0	440.985	0.31	9.49	7.10	2.39	2	Tasgeol
30089	Upper Cosmopolitan	484430	5438130	ABM_RU	Au	Au	Owen_Cong/Moina_Sst	Vein	0	470.956	1.50	45.90	30.60	15.30	2	Mirloch
58206	Upper Lynch Creek	380250	5336850	ABM_RU	Au		MRV	Residual	0	1200.342	0.81	24.79	15.46	9.33	2	Tasgeol
50172	Upper Twelve Mile Creek	347450	5367500	ABM_RU	Sn	Sn	Jur_Cen_Seq	Placer	0	1521.306	1.00	30.60	28.36	2.24	2	Tasgeol
32103	Valley; Brisies Central	565000	5443700	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1254.509	0.15	4.59	12.63	-8.04	1	Tasgeol
30111	Victoria	487000	5433800	ABM_RU	Au	Ni	Owen_Cong/Moina_Sst	Vein	0	3286.811	0.39	11.93	6.26	5.67	2	Tasgeol
50370	Victoria Zeehan	360390	5359580	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
40023	Victorian Golden Gate	574000	5406300	ABM_RU	Au	Au	Mathinna_Beds	Vein	0	1166.190	0.15	4.59	1.59	3.00	2	Mirloch
25036	Victory	584750	5464580	ABM_RU	Au		Mathinna_Beds	Vein	0	945.495	0.15	4.59	12.63	-8.04	1	Tasgeol
33006	Victory	586150	5435700	ABM_RU	Sn	Sn	Dev_Granitoid	Vein	0	1269.057	0.10	3.06	18.62	-15.56	1	Gurung
27010	Victory Copper	370200	5440600	ABM_RU	Cu		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
31057	Volunteer - E	500100	5448300	ABM_RU	Au	Ag Au	Mathinna_Beds	Vein	0	589.604	0.20	6.12	3.72	2.40	2	Tasgeol
30069	Volunteer - W	499640	5448180	ABM_RU	Au		Mathinna_Beds	Vein	0	114.337	0.20	6.12	3.72	2.40	2	Tasgeol
40025	Volunteer Cons	573400	5407300	ABM_RU	Au	As-Pb	Mathinna_Beds	Vein	2	0.000	0.15	4.59	1.59	3.00	2	Mirloch
40024	Volunteer Mine	572600	5408300	ABM_RU	Au		Mathinna_Beds	Vein	2	1280.625	0.15	4.59	1.59	3.00	2	Mirloch
24023	Vulcan	581200	5467950	ABM_RU	Sn	Sn	Jur_Cen_Seq	Placer	0	331.436	0.15	4.59	12.63	-8.04	1	Tasgeol
24053	Wainwrights	581400	5468900	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	446.230	0.01	0.31	2.15	-1.84	1	Tasgeol
50146	Wakefield	349930	5358150	ABM_RU	Sn	Sn	Dev_Granitoid	Vein/Placer	0	614.003	0.10	3.06	5.49	-2.43	1	Gurung
50032	Wallaces Prospect	372900	5365040	ABM_RU	Pb-Cu-Ag-Sn	Zn-Au-Bi-Sb	Camb_Sed_Seq	Vein	0	1516.476	5.00	153.00	30.60	122.40	3	Mirloch
30073	Wallis	499240	5449440	ABM_RU	Au		Mathinna_Beds	Vein	0	538.276	0.01	0.31	0.64	-0.33	1	Tasgeol
32219	Walshs; Walshes	563700	5442700	ABM_RU	Sn	Sn	Jur_Cen_Seq	Placer	0	401.659	0.15	4.59	12.63	-8.04	1	Tasgeol
40044	Waterfall	574240	5414220	ABM_RU	Au		Mathinna_Beds	Vein	0	6970.796	0.15	4.59	1.59	3.00	2	Mirloch
51132	Watkins Tunnel	376580	5367250	ABM_RU	Cu	Cu	MRV	Disseminated	0	312.570	11.10	339.66	0.98	338.68	3	Gurung
50001	Watsons Show	351350	5369700	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	5576.430	1.00	30.60	28.36	2.24	2	Tasgeol
50242	Watt & Mcauliffes	362100	5359420	ABM_RU	Pb-Ag	Pb-Ag	Camb_Sed_Seq	Vein	0	192.094	5.00	153.00	30.60	122.40	3	Mirloch
24049	Watts	581700	5466400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	795.837	0.15	4.59	12.63	-8.04	1	Tasgeol
25048	Watts (East)	589300	5464150	ABM_RU	Sn	Sn	Jur_Cen_Seq	Placer	0	1886.796	0.38	11.63	1.32	10.31	2	Mirloch
31058	Watts Prospect	527500	5436500	ABM_RU	Au		Mathinna_Beds	Vein	0	896.616	0.10	3.06	9.70	-6.64	1	Tasgeol
50122	Waxman and Westons	350900	5359600	ABM_RU	Sn-Fe	Bi-Ag-Zn-Mo	Dev_Granitoid	Disseminated	0	1353.292	0.10	3.06	1.62	1.44	2	Mirloch
31059	Welcome	500450	5450950	ABM_RU	Au		Mathinna_Beds	Vein	0	969.635	0.39	11.93	18.77	-6.84	1	Tasgeol
32060	Wellington	582100	5439400	ABM_RU	Sn	Sn	Dev_Granitoid	Vein	0	661.876	0.10	3.06	3.32	-0.26	1	Tasgeol
33020	West Anchor	584270	5435170	ABM_RU	Sn		Dev_Granitoid	Vein	0	684.723	0.10	3.06	18.62	-15.56	1	Gurung
50522	West Comet - E O/C	372160	5362440	ABM_RU	Pb-Ag	Pb-Ag	Camb_Sed_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50524	West Comet - S Adits	372100	5362020	ABM_RU	Pb-Ag		Camb_Sed_Seq	Vein	0	424.264	5.00	153.00	30.60	122.40	3	Mirloch
50523	West Comet - S O/C	372060	5362220	ABM_RU	Pb-Ag	Pb-Ag	Camb_Sed_Seq	Vein	0	241.661	5.00	153.00	30.60	122.40	3	Mirloch
50068	West Comet Mine	370030	5362510	ABM_RU	Pb-Ag		Camb_Ig_Seq	Vein	3	810.000	5.00	153.00	30.60	122.40	3	Mirloch

	Mine Name	AMGE	AMGN	Status	MAJ_COM	MIN_COM	Host	Form	Size	Distance	TOS	MPA	ANC	NAPP	GCLASS	Source
50125	West Federation	349980	5359580	ABM_RU	Sn-Bi	W	Dev_Granitoid	Vein/Dissem	0	1413.223	0.10	3.06	5.49	-2.43	1	Gurung
37056	West Higgs	425350	5406750	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	1201.624	0.36	11.02	0.06	10.96	2	Tasgeol
58284	West Lyell	383050	5342250	ABM_RU	Cu	Ag-Au	MRV	Disseminated	1	430.116	5.00	153.00	30.60	122.40	3	Mirloch
31038	West Major	507500	5454000	ABM_RU	Au		Mathinna_Beds	Vein	0	1071.310	0.39	11.93	18.77	-6.84	1	Tasgeol
37060	West Packetts Workings	425360	5406520	ABM_RU	Au	W	MRV	Vein	0	974.536	0.36	11.02	0.06	10.96	2	Tasgeol
30055	West Pinafore	498210	5451060	ABM_RU	Au		Mathinna_Beds	Vein	0	721.848	0.20	6.12	3.72	2.40	2	Tasgeol
30056	West Pinafore Extended	497900	5450900	ABM_RU	Au		Mathinna_Beds	Vein	0	1069.871	0.20	6.12	3.72	2.40	2	Tasgeol
58164	West Sedgwick	379300	5345550	ABM_RK	Py		MRV	Disseminated	1	1569.698	0.36	11.02	0.06	10.96	2	Tasgeol
25031	West Tasman	584550	5464700	ABM_RU	Au		Mathinna_Beds	Vein	0	800.525	0.15	4.59	12.63	-8.04	1	Tasgeol
30142	West Tasmania	483800	5438900	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	309.467	0.01	0.31	2.36	-2.05	1	Tasgeol
58177	West Tharsis	382400	5343300	ABM_RU	Cu	Ag-Au	MRV	Disseminated	0	721.110	5.00	153.00	30.60	122.40	3	Mirloch
30072	West Volunteer	499550	5448170	ABM_RU	Au		Mathinna_Beds	Vein	0	25.554	0.20	6.12	3.72	2.40	2	Tasgeol
31060	West Wiangata	527200	5445300	ABM_RU	Au		Mathinna_Beds	Vein	0	4071.954	0.10	3.06	9.70	-6.64	1	Tasgeol
50176	Western 12 Mile	345950	5367800	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	250.146	1.00	30.60	28.36	2.24	2	Tasgeol
50287	Western Extended	360300	5363800	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
31061	Western Globe	525790	5445480	ABM_RU	Au		Mathinna_Beds	Vein	0	4007.045	0.10	3.06	9.70	-6.64	1	Tasgeol
50178	Western St Dizier	345900	5366750	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	1294.246	1.00	30.60	28.36	2.24	2	Tasgeol
32167	Wheal Tasman	583700	5439400	ABM_RU	Sn		Dev_Granitoid	Disseminated	0	1219.705	0.10	3.06	3.32	-0.26	1	Tasgeol
30118	Whim	483400	5439200	ABM_RU	Au		Owen_Cong/Moina_Sst	Vein	0	186.344	1.71	52.33	32.34	19.99	2	Tasgeol
31062	White Lead	505500	5454700	OPM	Au		Jur_Cen_Seq	Placer	0	276.134	0.01	0.31	5.00	-4.69	1	Tasgeol
30075	White Pinafore	498850	5451470	ABM_RU	Au		Mathinna_Beds	Vein	0	136.693	0.20	6.12	3.72	2.40	2	Tasgeol
24014	White Rocks	567650	5463650	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	8209.674	0.10	3.06	16.87	-13.81	1	Tasgeol
24069	White Rocks (A)	567700	5464900	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	8733.925	0.10	3.06	16.87	-13.81	1	Tasgeol
24070	White Rocks (B)	567300	5464400	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	8843.690	0.10	3.06	16.87	-13.81	1	Tasgeol
24071	White Rocks (C)	567300	5463900	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	8630.286	0.10	3.06	16.87	-13.81	1	Tasgeol
39023	Whiting Prospect	536900	5428600	ABM_RU	Au	Ag As Cu	Mathinna_Beds	Vein	0	10011.541	0.10	3.06	9.70	-6.64	1	Tasgeol
51130	Williams Shaft	376550	5365950	ABM_RU	Pb	Zn-Cu	MRV	Dissem/VMS	1	0.000	5.00	153.00	30.60	122.40	3	Mirloch
37006	Wilmot	423300	5409300	ABM_RU	Ag	Pb Cu Au	Owen_Cong/Moina_Sst	Vein/Dissem	0	253.148	0.84	25.70	17.24	8.46	2	Tasgeol
40073	Wilson (New)	567400	5426400	ABM_RU	Au		Mathinna_Beds	Vein	0	15087.538	0.39	11.93	18.77	-6.84	1	Tasgeol
30076	Windermere; Windamere	499400	5449000	ABM_RU	Au		Mathinna_Beds	Vein	0	852.662	0.20	6.12	3.72	2.40	2	Tasgeol
50140	Woodings Workings	347410	5357620	ABM_RU	Sn	Cu-As	Dev_Granitoid	Vein/Placer	0	2053.022	0.10	3.06	5.49	-2.43	1	Gurung
32120	Woods	580500	5448500	ABM_RU	Sn		Jur_Cen_Seq	Placer	0	865.342	0.15	4.59	12.63	-8.04	1	Tasgeol
31064	Wyangata; Wiangata	526610	5445440	ABM_RU	Au		Mathinna_Beds	Vein	0	4047.059	0.10	3.06	9.70	-6.64	1	Tasgeol
41010	Yarmouth	605480	5414400	ABM_RU	Pb-Ag	Zn-As-Cu-Au	Mathinna_Beds	Vein	0	4035.243	0.10	3.06	9.70	-6.64	1	Tasgeol
40027	Yellow Boys	573400	5407400	ABM_RU	Au		Mathinna_Beds	Vein	2	100.000	0.15	4.59	1.59	3.00	2	Mirloch
37030	Yorks	426700	5405600	ABM_RU	Sn	W	Jur_Cen_Seq	Placer	0	177.544	0.10	3.06	3.78	-0.72	1	Tasgeol
30077	Young Chums	497400	5451100	ABM_RU	Au		Mathinna_Beds	Vein	0	1495.736	0.20	6.12	3.72	2.40	2	Tasgeol
50244	Zeehan Bell	363070	5359410	ABM_RU	Pb-Ag		Gordon_Lst	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch
50017	Zeehan Montana	361100	5362700	ABM_RU	Pb-Ag	Zn	Precamb_Seq	Vein	0	20.000	7.80	238.68	92.12	146.56	3	Gurung
50229	Zeehan Queen No. 2	361120	5361800	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	11.180	2.80	85.68	0.96	84.72	3	Gurung
50357	Zeehan Queen No. 3	360250	5361770	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	176.139	30.90	945.54	56.84	888.70	3	Gurung
50227	Zeehan Queen No. 4	360425	5361750	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	30.90	945.54	56.84	888.70	3	Gurung
50330	Zeehan Queen No. 5	360540	5362300	ABM_RU	Pb-Zn		Precamb_Seq	Vein	0	0.000	15.90	486.54	4.21	482.33	3	Gurung
50284	Zeehan Western	360450	5362925	ABM_RU	Pb-Ag		Precamb_Seq	Vein	0	0.000	5.00	153.00	30.60	122.40	3	Mirloch

Appendix 2

Water chemistry data

Explanations

Date	Date of sampling
Site	Location of sampling
Type	Sample type
	MD = Mine impacted water
	ND = Background water
Site_ID	Site number or sample number
Field_pH	pH of the water at site
Field_EC	Electrical conductivity (dS/m) of water at site
Alk	Alkalinity (mg CaCO ₃ /L)
Acid	Acidity (mg CaCO ₃ /L)
SO ₄ ²⁻	Sulphate (mg/L)
Al_D	Dissolved aluminium (mg/L)
As_D	Dissolved arsenic (mg/L)
Cd_D	Dissolved cadmium (mg/L)
Cu_D	Dissolved copper (mg/L)
Fe_D	Dissolved iron (mg/L)
Mn_D	Dissolved manganese (mg/L)
Pb_D	Dissolved lead (mg/L)
Zn_D	Dissolved zinc (mg/L)
Al_T	Total aluminium (mg/L)
As_T	Total arsenic (mg/L)
Cd_T	Total cadmium (mg/L)
Cu_T	Total copper (mg/L)
Fe_T	Total iron (mg/L)
Mn_T	Total manganese (mg/L)
Pb_T	Total lead (mg/L)
Zn_T	Total zinc (mg/L)
Field_T	Field temperature of water (°C)
Lab_No.	Laboratory analysis number
Source	Source of analytical data

Tasmanian Geological Survey Record 2001/05 52

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
15/04/2000	Barrier Creek	ND	252784	5573645	FM	5.11	0.78																				12.3		Gurung, 2001	
15/04/2000	Barrier Creek Upstream	ND	251578	5574190	FM	6.15	0.44																				10.1		Gurung, 2001	
19/01/2000	Barrow Creek @ Tasman Hwy	ND	529200	5424300	NE 12	7.20	0.07				0.088	0.005	0.001	0.001				0.001	0.001	0.097							18.6		Hydrol	
20/03/2000	Bather Creek	ND	375088	5366379	BathCk	5.90				3.81				0.002			0.001	0.043	0.052											Pasminco
16/05/2000	Bellana Creek	ND	427250	5408149	Bellana ck	5.24	0.08	1.00	5.00	0.91	0.226	0.005	0.001	0.001	0.112	0.013	0.005	0.001	0.364	0.240	0.005	0.001	0.123	0.011	0.005	0.001	11.5	6290	Gurung, 2001	
23/06/2000	Ben Creek @ TD	MD	359788	5364928	Montana	2.82	1.00	1.00	438.00	440.00	29.200	0.005	0.131	0.196	55.100	3.790	2.770	34.900	126.092	30.800	0.039	0.137	0.208	102.000	4.000	2.940	36.500	13.2	8050	Gurung, 2001
13/04/2000	Bennett's Farm	ND	243542	5567543	GWB-15	5.11	0.45	19.00	6.00	29.00	0.244	0.005	0.001	0.030	0.072	0.040	0.005	0.001	0.398	0.393	0.005	0.001	0.034	0.799	0.046	0.005	0.005	10.8	5224	Gurung, 2000
19/01/2000	Bennies Creek @ Tasman Hwy	ND	530000	5425000	NE 13	6.50	0.06				0.050	0.005	0.001	0.001			0.001	0.003	0.061								16.4		Hydrol	
02/02/2000	Bessells Creek > Lisle Creek	MD	526499	5436359	UNCK5	4.83	0.06	1.00	4.00	1.80	0.033	0.005	0.001	0.001	0.022	0.005	0.005	0.001	0.073	0.058	0.005	0.001	0.002	0.077	0.005	0.005	0.003	14.7	1413	Gurung, 2001
06/12/2000	Big River	ND	593739	5543622	Big R	4.65	0.58	1.00	14.00	12.00	0.989	1.070	0.005	0.005	0.001	0.001	0.001	0.001	2.073	0.523	0.693	0.028	0.029	0.005	0.005	0.009	0.046	16.3	14626	Gurung, 2001
03/02/2001	Binns Creek @ Upper Scamander Road	ND	601483	5410220	FM	7.10	21.30																				24.0		Gurung, 2001	
17/02/2000	Bischoff mine adit	MD	376512	5412125	BMW-5	2.90	4.18	1.00	2570	11000.00	27.900	0.010	0.004	0.550	496.000	9.630	0.021	6.170	540.285	26.300	0.148	0.004	0.539	591.000	9.180	0.023	5.860	14.3	2467	Gurung, 2001
17/02/2000	Bischoff mine adit	MD	376534	5412040	BMW-3	2.50	4.61	1.00	2730	13000.00	29.600	0.018	0.004	0.591	512.000	10.200	0.023	6.370	558.806	30.300	0.049	0.004	0.596	546.000	10.500	0.024	6.470	22.0	2466	Gurung, 2001
17/02/2000	Bischoff mine adit	MD	376550	5412020	BMW-1	2.38	5.07	1.00	3160	13000.00	34.600	0.067	0.007	0.712	532.000	12.000	0.028	7.400	586.814	34.700	0.071	0.006	0.687	537.000	12.000	0.026	7.430	23.0	2465	Gurung, 2001
16/05/2000	Bismuth Creek < Moina mine	ND	423241	5406651	Bismuth ck-2	5.67	0.11	5.00	4.00	3.10	0.138	0.005	0.001	0.001	0.249	0.005	0.005	0.001	0.405	0.170	0.005	0.001	0.001	0.304	0.005	0.005	0.001	11.3	6291	Gurung, 2001
15/05/2000	Bismuth Creek pit	MD	424073	5405950	Bismuth pit	4.39	0.04	1.00	12.00	1.10	0.755	0.005	0.001	0.001	0.177	0.014	0.005	0.001	0.959	0.807	0.005	0.001	0.001	0.184	0.014	0.005	0.002	10.3	6286	Gurung, 2001
15/05/2000	Bismuth Creek pit drain	MD	424086	5406177	Bismuth pit	3.90	0.07	1.00	25.00	2.40	1.000	0.005	0.001	0.001	0.305	0.009	0.005	0.001	1.327	1.040	0.005	0.001	0.004	0.311	0.010	0.005	0.007	10.4	6287	Gurung, 2001
04/06/1998	Blacks P.A.	MD	377900	5373700	Dell_7	3.98	0.20			763.00	0.690	0.054	0.032	0.310	8.290	4.690	0.190	13.100	27.356								9.6		Dellar, 1998	
15/04/2000	Blowhole Creek	ND	251289	5585566	FM	7.11	1.47																				13.1		Gurung, 2001	
14/03/2000	Blue Lake	MD	579922	5459399	Bluelake	3.23	0.41	1.00	56.00	330.00	4.170	0.005	0.001	0.001	2.860	0.023	0.005	0.018	7.083	4.240	0.005	0.001	0.001	3.090	0.024	0.005	0.023	12.9	3918	Gurung, 2001
01/09/1999	Blue Lake	MD	578909	5459233	BL2	4.00	0.85			628.00	62.300			0.002	131.300	0.113	0.335	0.085	194.135											de Jong, 1999
14/03/2000	Blue Lake (west)	MD	578310	5459321	BlueLW	3.62	0.26	1.00	24.00	100.00	1.680	0.005	0.001	0.001	0.803	0.015	0.005	0.005	2.515	1.730	0.005	0.001	0.001	1.210	0.016	0.005	0.007	14.6	3914	Gurung, 2001
01/09/1999	Blue Lake east	MD	580037	5459441	BLPj	3.90	0.23			215.00				0.001	1.500	0.015	0.002	0.014	1.532											de Jong, 1999
14/03/2000	Blue Lake NE	MD	580266	5459543	Catgully1	3.05	0.68	1.00	180.00	690.00	14.800	0.005	0.001	0.004	9.400	0.043	0.005	0.081	24.339	15.100	0.005	0.001	0.001	62.200	0.044	0.005	0.060	14.1	3917	Gurung, 2001
16/03/2000	Blue Lake outflow @ Wojtek bridge	MD	580387	5458822	WBCK	3.96	0.20	1.00	18.00	69.00	1.210	0.005	0.001	0.001	0.696	0.028	0.005	0.008	1.954	1.230	0.005	0.001	0.002	2.980	0.028	0.005	0.009	15.2	3936	Gurung, 2001
14/01/1998	Blue Lake (camp area)	MD	578786	5459540	E5	3.60	0.08			1.00	2.440			0.001	0.001	0.017	0.002	0.008	3.101								980113		SEMIF, 1998	
14/01/1998	Blue Lake (S)	MD	578924	5459394	E4	3.70	0.08			1.00	2.450			0.001	0.001	0.560	0.016	0.001	0.008	3.037							980112		SEMIF, 1998	
16/03/2000	Blue Lake west @ picnic site	MD	578707	5459576	Bluepic	3.65	0.26	1.00	24.00	130.00	1.890	0.005	0.001	0.001	0.715	0.018	0.005	0.005	2.640	1.740	0.005	0.001	0.001	0.992	0.016	0.005	0.007	15.1	3935	Gurung, 2001
21/05/1993	Bobadil disch. @ decant tower	MD	376355	5376112	PBS4	4.74				10.65				0.002	0.012	0.406	0.326	0.040	0.447	1.233										Pasminco EMP
06/01/1992	Boco Creek	ND	379843	5380851	Boco Cr	5.54	0.05	2.30		2.00			0.001	0.007	0.240	0.030	0.001	0.370	0.649								12.1		Koehnken	
23/07/1997	Boderick Creek < Flowthrough dump	ND	349509	5406304	SR_S9	6.52	0.35	18.00	4.00	115.00	0.363	0.001	0.001	0.059	0.265	0.318	0.001	0.011	1.019	0.430	0.000	0.000	0.060	0.480	0.230	0.000	0.010			ESR/CR 698/3
23/07/1997	Boderick Creek > Flowthrough dump	ND	349953	5406881	SR_S8	6.24	0.58	34.00	7.00	730.00	0.150	0.001	0.001	0.030	0.191	0.193	0.001	0.005	0.572	0.480	0.000	0.000	0.060	0.530	0.240	0.000	0.010			ESR/CR 698/3
13/06/1991	Bold Head portal	ND	249452	5564218	MD4	8.00	0.98		8.53	169.00					0.500	0.760		0.020	1.280											Miedecke, 1991
08/02/2001	Boobyalla River	ND	573861	5472470	FM	7.45	40.10																				16.2		Gurung, 2001	
12/04/2000	Bowden's Dairy	ND	240500	5594214	GWB-14	6.48	0.50	18.00	47.00	8.00	0.194	0.120	0.002	0.011	0.298	0.038	0.021	0.070	0.754	2.390	0.137	0.002	0.021	1.100	0.040	0.108	0.089	11.3	5221	Gurung, 2000
07/12/2000	Bowmans Ck @ Lackrana Ck	ND	599845	5560905	Bowman Ck	6.75	0.90	34.00	7.00	28.00	0.134	0.254	0.005	0.005	0.001	0.001	0.012	0.001	0.413	1.060	4.100	0.014	0.049	0.025	0.005	0.647	0.002	21.0	14758	Gurung, 2001
21/01/1998	Brid @ Duncraggen Road	ND	535324	5452089	3456	6.54	0.13																				16.4		Hydrol	
21/01/1998	Brid @ Golconda Road	ND	539000	5444550	82	6.33	0.11			1.70	0.600		0.001	0.001	1.400	0.060	0.001	0.002	2.065								17.0		Hydrol	
21/01/1998	Brid @ Tasman Highway	ND	538400	5435200	3459	6.38	0.08			1.30	0.365		0.001	0.001	0.500	0.020	0.001	0.001	0.889								15.4		Hydrol	
20/01/1998	Brid River	ND	530425	5455525	3455	6.78	0.14																				16.4		Hydrol	
21/01/1998	Brid River > tidal limit	ND	531300	5458800	19200	6.42	0.15			2.40	0.381		0.001	0.001	1.300	0.060	0.001	0.007	1.751								17.5		Hydrol	
05/04/2000	Bungaree Creek (Lower)	ND	230992	5593074	Bung-1	7.00	1.94	150.00	303.00	11.00	0.010	0.005	0.001	0.001	0.065	0.005	0.005	0.003	0.095	0.036	0.005	0.001	0.001	3.050	0.138	0.006	0.005	12.2	4977	Gurung, 2001
05/04/2000	Bungaree Creek (Middle)	ND	231839	5593202	Bung-2	5.20	1.94	1100.00	426.00	27.00	0.111	0.005	0.001	0.014	0.078	0.005	0.028	0.011	0.253	2.050	0.005	0.001	0.006	4.710	0.284	0.032	0.003	12.4	4978	Gurung, 2001
05/04/2000	Bungaree Creek (Middle)	ND	232434	5593367	Bung-3	4.04	12.34	1300.00	84.00	25.00	0.159	0.005	0.001	0.005	1.720	1.130	0.018	0.021	3.059	0.462	0.005	0.001	0.007	11.800	1.180	0.024	0.010	12.0	4979	Gurung, 2001
05/04/2000	Bungaree Creek (Upper)	ND	233057	5593282	Bung-4	3.84	8.11	1500.00	1.00	83.00	8.610	0.063	0.001	0.001	0.581	2.890	0.019	0.033	12.198	9.870	0.005	0.001	0.004	13.000	3.080					

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source	
09/05/2000	Cassiterite Creek > Tatlows	MD	324594	5429304	FM	4.23	0.77																				12.1		Gurung, 2001		
09/05/2000	Cassiterite Creek lower	MD	323429	5430363	FM	5.44	0.67																				11.0		Gurung, 2001		
09/05/2000	Cassiterite Creek tributary	MD	324742	5428690	FM	5.99	0.39																				10.3		Gurung, 2001		
09/05/2000	Cassiterite Creek tributary	MD	324513	5429166	FM	4.90	0.50																				11.4		Gurung, 2001		
09/05/2000	Cassiterite Creek upper	MD	325329	5428846	FM	5.78	0.43																				12.1		Gurung, 2001		
14/01/1998	Cats Gully Creek drain	MD	580342	5459431	E2	3.60	0.07			1510.00	11.000		0.001	0.009	7.260	0.026	0.009	0.024	18.329										980110	SEMF, 1998	
24/07/1997	Centre pit (CP) discharge	MD	349894	5406112	SR_S15	4.39	2.39	1.00	37.00	1580.00	4.464	0.001	0.001	1.720	0.143	11.000	0.001	0.624	17.954	4.040	0.000	0.000	1.770	0.970	12.200	0.000	0.760			ESR/CR 698/3	
25/08/1992	Chamberlain Creek	MD	377077	5372408	CHMBN Ck	4.64							0.005	0.005	0.325	0.034	0.010	0.059	0.438											Pasminco EMP	
04/06/1998	Chamberlain Creek < TME	MD	377209	5372126	Dell_12	4.56	0.10			58.00	0.600	0.005	0.008	0.023	0.430	0.310	0.063	4.260	5.699									9.9		Dellar, 1998	
04/06/1998	Chamberlain Creek > Pieman	MD	376836	5372752	Dell_13	5.98	0.05			3.20	0.160	0.001	0.001	0.001	0.330	0.050	0.011	0.130	0.684									8.9		Dellar, 1998	
04/06/1998	Chamberlain Creek > TME	MD	377323	5371227	Dell_10	4.48	0.05			19.20	0.430	0.001	0.003	0.003	0.440	0.055	0.003	0.100	1.035									8.5		Dellar, 1998	
02/10/1997	Channel > PPT Dam	ND	561210	5390611	Medec_28	4.80	0.29	1.00	35.00	132.00	2.000		0.328	0.014	0.100	3.000	0.001	17.700	23.143	3.000		0.340	0.010	0.100	3.000	0.000	17.000			Miedecke, 1996	
24/10/1991	Chester mine creek	MD	378545	5379962	Chester	2.66	1.62			500.00			0.004	2.520	85.000	0.290	0.033	0.550	88.397									9.7		Koehnken	
08/12/2000	Chew Tobacco Creek @ Lackrana Road	ND	601081	5555132	Drain Ck-2	7.87	1.48	176.00	27.00	4000.00	0.020	0.127	0.005	0.005	0.001	0.001	0.001	0.001	0.161	0.029	0.304	0.005	0.067	0.005	0.005	0.005	0.007	18.4	14760	Gurung, 2001	
12/12/2000	Chew Tobacco Creek @ Thule Road	ND	593978	5555906	FM	6.17	0.54																					17.2		Gurung, 2001	
19/05/1999	Creek @ Heemskirk Road	MD	360749	5362615	ZH019	4.14	0.10																							Earth System	
09/12/2000	Creek @ West End Road	ND	570586	5582412	Tanbay Ck	4.75	0.99	1.00	34.00	9.40	2.830	2.850	0.005	0.005	0.001	0.001	0.001	0.001	5.694	1.420	1.540	0.007	0.007	0.005	0.006	0.009	0.013	15.8	14767	Gurung, 2001	
16/03/1996	Creek > Razerback TD	ND	369608	5363753	Law_5	5.50	0.31	26.70		2.57	0.059			0.050	0.443	0.100	0.005	0.040	0.697											Lawrence, 1996	
17/06/1995	Creek draining Stormdowne	MD	360245	5361814	QH3	3.00	0.36								7.500		1.470													Ladiges, 1995	
03/01/1998	Creek @ mullock heap cutting	MD	576196	5465115	M6	5.80	0.01			7.50	1.030		0.001	0.003	3.580	0.007	0.001	0.009	4.631											980096	
13/03/1996	Coldstream @ Huskisson Dv	ND	376800	5402100	A25	6.80	0.08			2.00								0.005										14.6		Krasnicki	
19/03/2000	Combined Hellyer Discharge	MD	393240	5396070	H1	5.26	1.58	7.40		795.00		0.005	0.007	0.196	3.686	2.494	0.278	1.146	7.812											WMRL EMP	
16/03/1996	Comet Creek < Adelaide mine	ND	369518	5361677	Law_10	6.60	0.15	4.30		2.67	1.006			0.001	3.815	1.017	0.263	0.102	6.204											Lawrence, 1996	
15/03/1996	Comet Creek < Road crossing	ND	370805	5362306	Law_11	6.30	0.32	21.20		6.47	0.000			0.001	0.812	0.690	0.013	0.045	1.561											Lawrence, 1996	
16/03/1993	Comet Creek > Dundas River	ND	368185	5361415	Law_8	6.30	0.22	4.50		9.92	0.278			0.001	1.352	0.991	0.249	0.539	3.410											Lawrence, 1996	
18/03/1997	Comet Creek < mine	MD	370800	5362300	AT03	6.46	0.09						0.001	0.003			0.012	0.024	0.040									10.8		Krasnicki	
01/04/1997	Comstock 340 adit	MD	357350	5360703	recon32	6.21																						18.1		Parr, 1997	
01/04/1997	Comstock 60 adit	MD	357652	5360650	recon33	6.75																						14.9		Parr, 1997	
08/03/2000	Comstock adit	MD	357400	5360300	SEMF2	3.20		1.00	98		0.440		0.010		11.700	8.620	0.010	22.500	43.280	1.960		0.010	0.000	43.100	0.010	0.050	23.200			SEMF, 2000	
12/06/1995	Comstock adit-5	MD	383160	5345462	777	2.90			660	1120				44.700	85.500																Miedecke, 1996
12/06/1995	Comstock adit-7	MD	383699	5345545	19	3.40			895	8920				24.000	132.000																Miedecke, 1996
23/06/2000	Comstock Creek @ Comstock mine	MD	357372	5360550	FM	5.22	0.39																					12.1		Gurung, 2001	
23/06/2000	Comstock Creek @ Trial Harbour Road	MD	357255	5360365	FM	5.10	0.44																					16.4		Gurung, 2001	
10/08/1999	Comstock Creek < adit	MD	357262	5360200	SEMF3	3.80		1.00	49.00		1.430		0.020	0.010	0.680	4.220	0.080	14.400	20.840	2.110		0.020	0.010	30.700	0.000	0.160	14.900			SEMF, 2000	
12/06/1995	Comstock Creek < adit-7	MD	383804	5345503	3a	3.50			59.00	47.50				1.100	5.700																Miedecke, 1996
10/08/1999	Comstock Creek > adit	MD	357245	5360312	SEMF1	6.20		2.00	9.00		0.290			0.010	0.680	0.130	0.050	0.280	1.440	0.370		0.000	0.010	1.300	0.000	0.090	0.300			SEMF, 2000	
12/06/1995	Comstock Creek > King River	MD	385937	5345042	17a	4.10			29.00	34.90				0.500	3.200																Miedecke, 1996
12/06/1995	Comstock Creek, upper	MD	383516	5345506	comst_ck	4.10			6.00					0.100	0.210																Miedecke, 1996
17/06/1995	Comstock open cut, MD	MD	383356	5345199	comst_oc	3.10			80.00	90.00				2.280	5.420																Miedecke, 1996
15/03/1996	Concert Creek > Dundas River	ND	371186	5363508	Law_7	6.40	0.29	14.30		5.59	0.000		0.001	0.197	0.138	0.001	0.064	0.401													Lawrence, 1996
18/02/2000	Conglomerate Creek	MD	380622	5340540	QRW-7	5.62	0.07	1.00	2.00	10.00	0.029	0.005	0.001	0.016	0.039	0.037	0.005	0.016	0.148	0.029	0.005	0.001	0.013	0.052	0.030	0.005	0.018	22.1	2471	Gurung, 2001	
01/02/2000	Conglomerate Creek tributary @ Lyell Highway	MD	382152	5340825	ML01	3.50	0.10	1.00	23.00	130.00	0.246	0.005	0.001	0.108	0.217	0.372	0.033	0.137	1.119	0.269	0.005	0.001	0.115	0.239	0.389	0.038	0.139	18.2	1426	Gurung, 2001	
01/02/2000	Conglomerate Creek tributary @ Lyell Highway	MD	382663	5340521	ML9	3.42	0.24	1.00	30.00	170.00	0.385	0.005	0.001	0.118	0.296	0.309	0.034	0.114	1.262	0.408	0.005	0.001	0.123	0.425	0.321	0.038	0.118	15.5	1420	Gurung, 2001	
01/02/2000	Conglomerate Creek tributary @ Lyell Highway	MD	382582	5340644	ML11	3.33	0.27	1.00	35.00	190.00	0.366	0.005	0.001	0.031	0.102	0.117	0.008	0.014	0.644	0.395	0.005	0.001	0.036	0.927	0.129	0.010	0.015	16.5	1419	Gurung, 2001	
03/03/2000	Conglomerate Creek u/s	MD	381246	5340701	Conglo-3	4.58	0.07	1.00	4.00	32.00	0.124	0.008	0.001	0.045	0.056	0.161	0.014	0.001	0.410	0.123	0.060	0.001	0.066	0.135	0.141	0.012	0.038	18.1	3527	Gurung, 2001	
22/05/1991	Conliffe Creek	ND	375206	5366443	ConCk	5.70				2.97				0.001	0.002	0.004	0.004	0.113	0.124												Pasminco
03/02/2000	Contiguous Creek @ Trial Harbour Road	ND	354162	5359155	THCK1	5.47	0.09	1.00	6.00	5.50	0.123	0.005	0.001	0.001	0.078	0.006	0.005	0.002	0.221	0.163	0.005	0.001	0.001	0.197	0.009	0.005	0.002	17.0	1482	Gurung, 2001	
17/06/1995	Conveyor Tunnel	MD	381424	5341892	8a	2.90	5.20		4285.00	2598.00	197.000			141.000	326.000	173.000			25.000	862.000											Miedecke, 1996
19/01/2000	Coquet Creek @ Tasman Hwy	ND	528200	5421300	NE 9	7.00	0.06				0.050	0.005	0.001	0.001			0.001	0.001	0.059									17.7		Hydrol	
06/12/2000	Cronleys Creek @ Big River Rd	ND	590582	5544082	Cronley Ck	4.50	0.58	1.00	16.00	12.00	1.040	1.090	0.005	0.005	0.001	0.001	0.001	0.001	2.144	0.351	0.411	0.015	0.015	0.005	0.005	0.002	0				

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
30/03/1995	Cullenswood	ND	594500	5395300	730	7.35	0.14					0.010	0.001	0.001			0.001	0.005	0.018								9.9		Hydrol	
03/02/2000	Cumberland Creek out Cumberland Lake	ND	350911	5358940	Cumck-1	5.79	0.07	1.00	7.00	1.90	0.162	0.005	0.001	0.001	0.071	0.006	0.005	0.001	0.252	0.226	0.005	0.001	0.001	0.129	0.006	0.005	0.002	18.0	1489	Gurung, 2001
03/02/2000	Cumberland Lake @ campsite	ND	350916	5358967	Cumlake-1	5.01	0.07	1.00	8.00	2.40	0.162	0.005	0.001	0.001	0.068	0.006	0.005	0.002	0.250	0.230	0.005	0.001	0.001	0.128	0.006	0.005	0.003	15.0	1483	Gurung, 2001
03/02/2000	Cumberland Lake inflow	ND	350575	5359154	Cwet1	6.31	0.10	1.00	8.00	1.60	0.168	0.005	0.001	0.001	0.652	0.005	0.005	0.003	0.840	0.261	0.005	0.001	0.001	1.190	0.005	0.005	0.003	165.0	1484	Gurung, 2001
13/01/1998	Dam outflow	MD	586879	5465017	S3	6.90	0.02			6.20	10.200		0.001	0.008	2.560	0.009	0.005	0.021	12.804									980099		SEMF, 1998
13/01/1998	Dam wall seepage	MD	587235	5465512	S10	6.50	0.43			2.10	2.830		0.001	0.011	22.000	0.640	0.008	0.021	25.511									980106		SEMF, 1998
19/01/2000	Distillery Creek > North Esk	ND	514300	5413050	NE 5	7.80	0.08				0.062	0.005	0.001	0.001			0.001	0.001	0.071								18.8		Hydrol	
19/01/2000	Distillery Creek > of filtration plant	ND	517800	5413000	NE 6	7.40	0.06				0.097	0.005	0.001	0.001			0.001	0.001	0.106								18.8		Hydrol	
15/05/2000	Dolcoath Creek	ND	426930	5405715	Dolcoath ck	5.77	0.04	3.00	4.00	0.78	0.136	0.005	0.001	0.001	0.033	0.005	0.005	0.005	0.191	0.341	0.005	0.001	0.001	0.101	0.007	0.005	0.003	9.4	6289	Gurung, 2001
13/04/2000	Dolphin Head lake	MD	249343	5561956	Grassy Lake	8.36	1.96	430.00	122.00	1.00	0.010	0.005	0.001	0.001	0.042	0.005	0.005	0.001	0.070	0.010	0.005	0.001	0.001	0.069	0.005	0.005	0.003	15.9	5229	Gurung, 2001
28/11/1991	Donaldson River	ND	336399	5390989	Donaldson	6.70	0.39	2.60		70.30			0.001	0.002	0.230	0.030	0.001	0.020	0.284									11.0		Koehnken
22/01/1998	Dorset R @ Cemetery Corner	ND	565075	5431250	3491	5.48	0.07			1.80	0.000		0.001	0.114	0.015	0.050	0.001	0.001	0.182									21.7		Hydrol
22/01/1998	Dorset R @ Ruby Flats Road	ND	562500	5435950	19219	5.26	0.07			1.80	0.000		0.001	0.098	0.014	0.050	0.001	0.002	0.166									19.4		Hydrol
21/01/2000	Dorset River tributary @ Alberton mine	ND	566653	5426697	FM	7.30	0.06																					12.0		Gurung, 2001
18/05/2000	Dove River @ Cradle Valley	ND	412413	5389983	FM	4.65	0.03																					10.5		Gurung, 2001
18/05/2000	Dove River @ Dove Lake Road	ND	413306	5388992	FM	4.44	0.03																					10.3		Gurung, 2001
08/12/2000	Drain @ Lackrana Road	ND	599323	5561934	Nelsons Drain	7.91	0.44	145.00	5.00	720.00	0.100	0.235	0.005	0.005	0.001	0.001	0.001	0.001	0.349	0.055	0.305	0.005	0.008	0.005	0.005	0.014	0.010	19.4	14762	Gurung, 2001
08/12/2000	Drain @ Lackrana Road	ND	598750	5563969	Drain-4	7.89	0.44	9.00	10.00	4.50	0.618	2.470	0.005	0.005	0.001	0.001	0.001	0.003	3.104	1.370	6.080	0.006	0.014	0.005	0.005	0.013	0.027	21.3	14763	Gurung, 2001
12/04/2001	Drain off Hawthorns @ Melugas Road	ND	336330	5475491	Melugas-2	7.30	0.70	398.00	11.00	3.00	0.020	0.005	0.001	0.001	0.024	0.044	0.005	0.001	0.101	0.020	0.005	0.001	0.001	0.325	0.094	0.005	0.001	12.2	19958	Gurung, 2001
12/02/2001	Drain @ Great Forester	ND	537777	5459712	FM	6.98	0.22																					19.2		Gurung, 2001
12/04/2001	Drain > Scopus Creek	ND	335640	5475841	FM	6.25	0.95																					12.3		Gurung, 2001
10/03/1996	Dundas R @ Murchison Hwy	ND	367367	5360025	Law_1	6.50	2.12	7.80		11.80	0.210			0.001	0.782	0.177	0.039	0.111	1.320											Lawrence, 1996
03/02/2000	Dundas River @ Zeehan Hwy	ND	367420	5359977	Dundas-1	7.20	0.12	19.00	3.00	12.00	0.010	0.005	0.001	0.001	0.087	0.043	0.005	0.067	0.219	0.014	0.005	0.001	0.001	0.181	0.132	0.005	0.151	18.0	1486	Gurung, 2001
16/03/1996	Dundas River > Comet Creek	ND	368128	5361521	Law_2	6.40	0.12	4.80		4.79	0.415		0.001	0.001	2.737	0.912	0.204	0.348	4.617											Lawrence, 1996
15/03/1996	Dundas River > Concert Creek	ND	371292	5363414	Law_6	7.00	0.12	7.70		6.67	0.109			0.001	0.428	0.001	0.001	0.054	0.594											Lawrence, 1996
18/03/1997	Dundas @ Dundas Road	ND	368575	5362625	AT04	6.93	0.11						0.001	0.003			0.007	0.135	0.146									12.7		Krasnicki
18/03/1997	Dundas @ Zeehan Highway	ND	367425	5359974	AT09	6.85	0.09						0.001	0.005			0.007	0.181	0.194									10.9		Krasnicki
02/11/1994	East Queen @ Zeehan Highway	MD	380667	5342285	AMon1	4.40	0.30			90.00			0.004	1.280			0.006	0.650	1.940									11.8		Krasnicki
14/03/2000	Eastern Blue Lake	MD	579292	5459308	BlueLE	3.66	0.25	1.00	24.00	110.00	1.740	0.005	0.001	0.001	0.465	0.015	0.005	0.016	2.248	1.900	0.005	0.001	0.001	1.170	0.016	0.005	0.008	13.2	3915	Gurung, 2001
02/10/1997	Eastern Hill inflow	MD	561126	5389778	Medec_9	5.00	0.67	3.00	69.00	361.00	2.000	0.121	0.005	0.005	13.000	0.001	7.280	22.407	2.000		0.120	0.000	48.000	6.000	0.000	7.420				Miedecke
09/12/2000	Edens Creek @ Edens Road	ND	576304	5597784	Edens Ck	8.10	3.28	404.00	7.00	180.00	0.020	0.020	0.005	0.005	0.001	0.001	0.001	0.001	0.054	0.069	0.065	0.005	0.005	0.005	0.005	0.001	0.001	17.2	14770	Gurung, 2001
06/04/2000	Egg Lagoon (Bramich)	ND	241721	5605383	GWB-5	7.00	1.12	7.80	298.00	75.00	0.129	0.005	0.001	0.002	1.170	0.128	0.005	0.010	1.450	1.480	0.148	0.001	0.118	102.000	0.264	0.139	0.185	14.7	4988	Gurung, 2000
10/04/2000	Egg Lagoon (Bramich)	ND	241406	5605519	GWB-11	7.10	1.30	5.50	309.00	21.00	0.284	0.010	0.001	0.001	2.380	0.005	0.005	0.009	2.695	0.408	0.023	0.001	0.001	8.730	0.019	0.005	0.011	11.6	4998	Gurung, 2000
06/04/2000	Egg Lagoon (McGarvie)	ND	245874	5606225	Well-1	6.79	1.00	11.00	442.00	18.00	0.218	0.005	0.001	0.062	1.770	0.007	0.005	0.025	2.093	0.255	0.005	0.001	0.117	8.090	0.024	0.009	0.057	11.7	4986	Gurung, 2000
10/04/2000	Egg Lagoon (McGarvie)	ND	245344	5606637	GWB-12	7.60	1.47	51.00	78.00	7.00	0.186	0.005	0.001	0.001	0.146	0.005	0.009	0.004	0.357	3.640	0.006	0.001	0.002	2.870	0.015	0.007	0.017	10.9	4999	Gurung, 2000
06/04/2000	Egg Lagoon Creek	ND	240263	5606350	EggCk-1	6.95	1.93	240.00	664.00	46.00	0.154	0.005	0.001	0.001	0.257	0.018	0.015	0.007	0.458	0.624	0.005	0.001	0.001	1.050	0.352	0.022	0.005	13.2	4987	Gurung, 2001
10/04/2000	Egg Lagoon Creek	ND	245855	5604800	EggCk-2	7.65	6.61	150.00	334.00	23.00	0.214	0.005	0.001	0.002	0.085	0.005	0.005	0.006	0.323	0.522	0.005	0.001	0.003	0.853	0.153	0.007	0.015	12.2	5000	Gurung, 2001
21/06/2000	Egg Lagoon Creek @ Mansons Road Bridge	ND	245900	5604745	DK7	8.00	6.12																					14.4		Krushka
09/05/2000	Emmetts Creek	ND	324054	5430471	FM	5.67	0.60																					7.4		Gurung, 2001
17/05/2000	Emu River	ND	398881	5430449	Emu R	6.62	0.08	8.00	6.00	2.30	0.225	0.005	0.001	0.001	0.219	0.005	0.005	0.001	0.462	0.328	0.005	0.001	0.001	0.457	0.024	0.005	0.001	12.8	6295	Gurung, 2001
17/05/2000	Emu River < Tasman Fe mine	ND	397282	5426614	FM	6.25	0.08																					11.0		Gurung, 2001
01/09/1999	Endurance Flat	MD	578713	5458690	W1	2.60	1.66			687.00	69.400				109.500	0.150	0.010	0.140	179.200											
16/03/2000	Endurance tin mine	MD	579584	5459316	BlueWE	3.42	0.36	1.00	67.00	210.00	5.190	0.005	0.001	0.001	0.938	0.021	0.008	0.026	6.190	5.260	0.005	0.001	0.001	15.300	0.022	0.007	0.030	15.1	3923	Gurung, 2001
16/03/2000	Endurance tin mine	MD	579542	5458453	EGW-2	3.18	0.60	1.00	195.00	640.00	15.900	0.005	0.001	0.001	10.800	0.066	0.005	0.033	26.811	15.900	0.005	0.001	0.001	53.600	0.066	0.005	0.039	17.1	3931	Gurung, 2001
16/03/2000	Endurance tin mine	MD	579596	5458514	EGW-1	2.92	0.85	1.00	298.00	800.00	31.100	0.005	0.001	0.001	14.100	0.068	0.005	0.037	45.317	30.900	0.005	0.001	0.001	29.800	0.068	0.005	0.041	16.8	3930	Gurung, 2001
01/02/1999	Endurance tin mine	MD	579239	5458999	M11	3.60	1.22			1155.00	7.900																			

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
19/08/2000	Ettrick River @ old station	ND	234776	5568215	DK1	8.10	0.69																				12.1		Krushka	
03/02/2000	Ewart Creek @ Zeehan Hwy	ND	372471	5351652	Ewart1	7.04	0.11	20.00	4.00	2.30	0.015	0.005	0.001	0.001	0.052	0.005	0.005	0.001	0.085	0.053	0.005	0.001	0.001	0.130	0.005	0.005	0.001	17.4	1492	Gurung, 2001
18/10/1999	Ewart Creek @ Zeehan Hwy	ND	372470	5351641	A12	7.51	0.08			5.00			0.001	0.001			0.001	0.001	0.003								10.4		Krasnicki	
11/04/2001	Excavated drain @ Harcus River Road	ND	316428	5480393	HREXCA-1	3.10	1.28	1.00	236.00	680.00	31.800	0.005	0.001	0.001	8.630	1.680	0.005	0.015	42.137	32.600	0.005	0.001	0.002	5.580	1.700	0.005	0.034	11.0	19963	Gurung, 2001
26/01/1992	Farm Creek	ND	382765	5380994	Farm Cr	4.63	0.05			2.00			0.001	0.001	0.300	0.330	0.003	0.260	0.895								12.6		Koehnken	
16/02/2000	Farm Creek @ bridge	ND	382634	5380779	Farm-3	6.50	0.05	3.00	4.00	2.60	0.108	0.005	0.001	0.003	0.118	0.005	0.005	0.007	0.252	0.133	0.005	0.001	0.004	0.174	0.005	0.005	0.003	16.8	2463	Gurung, 2001
05/02/2000	Farm Creek u/s	ND	383468	5382706	FarmCk-1	6.67	0.06	1.00	7.00	2.00	0.189	0.005	0.001	0.001	0.140	0.005	0.005	0.022	0.368	0.206	0.005	0.001	0.001	0.169	0.005	0.005	0.011	18.1	2456	Gurung, 2001
09/03/1997	Farm Creek @ Pieman Road	ND	382768	5380996	AT16	5.61	0.05						0.001	0.002			0.001	0.007	0.011								11.6		Krasnicki	
03/02/2000	Farrel Rivulet @ Zeehan Hwy	ND	370632	5355465	Farrel1	7.18	0.09	14.00	4.00	2.50	0.018	0.005	0.001	0.001	0.080	0.005	0.005	0.001	0.116	0.055	0.005	0.001	0.003	0.203	0.011	0.005	0.002	19.1	1487	Gurung, 2001
06/12/2000	Fatheringate Creek	ND	588828	5547120	Fgate Ck	5.15	0.44	1.00	13.00	8.40	0.929	1.050	0.005	0.005	0.001	0.001	0.001	0.001	1.993	0.325	0.410	0.014	0.014	0.005	0.005	0.012	0.007	16.6	14623	Gurung, 2001
23/01/1998	Federal Creek @ Maurice Road	ND	558300	5426475	19223	5.41	0.06																				17.5		Hydrol	
02/02/2000	Fentons Creek @ Montagu Rd	ND	337942	5478701	UNCK1	4.74	0.05	1.00	7.00	2.20	0.034	0.005	0.001	0.001	0.073	0.005	0.005	0.001	0.125	0.040	0.005	0.001	0.001	0.104	0.005	0.005	0.005	17.4	1415	Gurung, 2001
16/04/1991	Filter plant creek	MD	378296	5373911	FFC	3.95				38.00			0.021	0.254	0.346	3.250	0.323	10.510	14.704									5.8		Pasminco EMP
25/11/2000	Fly By Night Creek	MD	577881	5468981	FlyBN-1	5.88	0.28	2.00	9.00	5.10	0.541	0.005	0.001	0.001	0.308	0.011	0.005	0.013	0.885	0.794	0.005	0.001	0.001	0.835	0.007	0.005	0.001	12.2	14084	Gurung, 2001
19/01/2000	Ford River @ Upper Blessington	ND	547800	5408850	NE 21	7.00	0.07				0.050	0.005	0.001	0.001			0.001	0.010	0.068								17.9		Hydrol	
23/07/1999	Fraser River	ND	251800	5578600	3616	6.83	0.43			14.00					2.900	0.050											10.2		Hydrol	
23/07/1999	Fraser River	ND	245200	5575750	3617	6.90	0.43																				10.1		Hydrol	
15/04/2000	Fraser River	ND	248781	5580119	FM	7.11	1.47																				12.1		Gurung, 2001	
23/03/2000	Frome River	ND	579003	5441602	Frome-1	6.45	0.05	2.00	4.00	1.20	0.127	0.005	0.001	0.001	0.116	0.005	0.005	0.001	0.261	0.183	0.005	0.001	0.002	0.320	0.012	0.005	0.002	13.8	4315	Gurung, 2001
05/12/2000	Furneaux Quarry	ND	594026	5570891	FIGW-1	7.63	0.57	9.00	7.00	73.00	0.095	18.600	0.006	0.005	0.001	0.001	0.014	0.017	18.739	0.149	10.600	0.024	0.099	0.005	0.038	0.227	0.069	22.6	14617	Gurung, 2000
22/10/1991	George Creek	MD	397395	5363928	GeorgeCr	3.60	0.07			2.00			0.001	0.001	0.230	0.030	0.001	0.060	0.323									5.8		Koehnken
08/03/1995	Governor @ Lake Burbury	ND	393300	5330400	A07	5.70	0.05			10.00			0.001	0.001			0.001	0.005	0.008								15.5		Krasnicki	
19/02/1998	Grand Centre adit	MD	378320	5370350	Dell_16	5.15					0.685			0.100	18.530	0.444	0.317	0.009	20.085								10.2		Dellar, 1998	
11/04/2000	Granite Lagoon	ND	247035	5608316	FM	5.46	0.88																				12.5		Gurung, 2001	
13/04/2000	Grassy lower dam	ND	249679	5562321	Grassy Dam-2	9.54	0.50	13.00	90.00	16.00	0.010	0.005	0.001	0.001	0.281	0.005	0.005	0.001	0.309	0.104	0.005	0.001	0.001	1.900	0.174	0.005	0.003	14.1	5227	Gurung, 2001
13/04/2000	Grassy River	ND	249858	5562190	Grassy Ck	7.43	0.55	13.00	126.00	16.00	0.010	0.005	0.001	0.002	0.799	1.180	0.005	0.110	2.112	0.040	0.006	0.001	0.004	1.420	1.260	0.005	0.006	14.2	5228	Gurung, 2001
21/06/2000	Grassy River @ Grahams Road Bridge	ND	248478	5565684	DK9	7.25	0.35																				13.4		Krushka	
13/04/2000	Grassy upper dam	ND	249525	5562868	Grassy Dam-1	6.62	0.46	15.00	60.00	6.00	0.010	0.005	0.001	0.001	1.610	0.005	0.005	0.001	1.638	0.052	0.005	0.001	0.001	2.060	0.151	0.005	0.003	12.6	5226	Gurung, 2001
24/11/2000	Great Forester	ND	552416	5455752	GF-1	7.66	0.13	10.00	3.00	2.40	0.105	0.005	0.001	0.001	0.303	0.005	0.005	0.006	0.431	0.448	0.005	0.001	0.001	0.803	0.025	0.005	0.001	17.7	14080	Gurung, 2001
23/03/2000	Groom River @ Anchor mine road	ND	584882	5434689	Groom-1	5.69	0.07	2.00	3.00	5.00	0.139	0.005	0.001	0.001	0.166	0.025	0.005	0.010	0.352	0.157	0.006	0.001	0.001	0.255	0.027	0.005	0.009	15.3	4303	Gurung, 2001
23/03/2000	Groom River @ highway	ND	588182	5432036	Groom-2	6.28	0.06	3.00	3.00	1.60	0.103	0.005	0.001	0.001	0.135	0.005	0.005	0.003	0.258	0.161	0.005	0.001	0.001	0.317	0.016	0.005	0.006	13.3	4313	Gurung, 2001
23/03/2000	Groom River u/s Anchor Ck	ND	584620	5435866	Auck-2	6.15	0.05	2.00	3.00	1.30	0.108	0.005	0.001	0.002	0.402	0.005	0.005	0.004	0.532	0.193	0.005	0.001	0.004	0.906	0.130	0.005	0.007	15.6	4308	Gurung, 2001
21/01/1998	Greatt Forester @ 10 Mile Track (No. 2)	ND	542550	5435700	3476	6.17	0.09			2.10	0.050		0.001	0.001	0.240	0.010	0.001	0.001	0.304								16.4		Hydrol	
21/01/1998	Great Forester @ Burrows Road	ND	551300	5445925	3471	6.19	0.10			3.20	0.297		0.001	0.001	0.590	0.020	0.001	0.001	0.911								19.9		Hydrol	
21/01/1998	Great Forester @ Forester Road	ND	551300	5448400	19201	6.18	0.11			2.90	0.353		0.001	0.001	0.600	0.030	0.001	0.001	0.987								20.6		Hydrol	
21/01/1998	Great Forester @ Tasman Hwy	ND	548550	5440251	13	6.00	0.09			2.90	0.340		0.001	0.001	0.510	0.030	0.001	0.001	0.884								17.2		Hydrol	
21/01/1998	Great Forester off Waterhouse Road	ND	541650	5459600	3463	5.79	0.13			3.30	0.358		0.001	0.001	0.840	0.040	0.001	0.002	1.243								17.1		Hydrol	
02/02/2000	Halls Creek @ ABT rail	ND	377304	5334245	NEWALL3	6.55	0.06	1.00	5.00	1.90	0.053	0.005	0.001	0.001	0.103	0.005	0.005	0.001	0.174	0.223	0.005	0.001	0.007	0.233	0.005	0.005	0.003	17.5	1416	Gurung, 2001
10/05/2000	Harcus River @ Harcus Road	ND	315020	5478772	Harcus R	7.84	1.50	290.00	4.00	37.00	0.026	0.005	0.001	0.001	0.100	0.005	0.005	0.006	0.149	0.078	0.005	0.001	0.001	0.534	0.141	0.007	0.002	14.2	6197	Gurung, 2001
11/04/2001	Harcus River @ Harcus Road	ND	315004	5478775	Harcus-1	8.00	1.44	287.00	2.00	67.00	0.020	0.005	0.001	0.001	0.040	0.005	0.005	0.001	0.078	0.041	0.005	0.001	0.001	0.221	0.012	0.005	0.001	12.8	19964	Gurung, 2001
19/01/2000	Hardens ravine	MD	586319	5465075	FM	6.68	0.14																				21.0		Gurung, 2001	
19/01/2000	Hardens ravine	MD	586032	5465211	FM	7.05	0.45																				21.0		Gurung, 2001	
06/01/1992	Hatfield River	ND	388258	5401674	Hatfield	6.27	0.06	14.10		8.00			0.001	0.001	0.070	0.030	0.001	0.080	0.183								14.5		Koehnken	
31/05/1995	Hatfield River > Huskisson River	ND	375970	5393105	HH	6.70	0.05	5.00		1.30		0.001	0.005	0.020	0.130	0.050	0.050	0.020	0.276											WMRL EMP
13/03/1996	Hatfield @ Huskisson Dv	ND	375950	5393097	A24	6.50	0.07			1.00								0.008									14.2		Krasnicki	
17/06/1995	Haulage Ck @ tailings disch.	MD	381159	5341876	9a	2.70	4.05		3175.00	4090.00	275.000			104.000	422.000	131.000		14.200	946.200											Miedecke
18/02/2000	Haulage Creek < CMT	MD	381089	5341881	QRW-3	2.94	3.84	1.00	1450.00	9600.00	55.000	0.005	0.007	35.500	101.000	48.800	0.034	5.560												

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source	
16/02/2000	Heazlewood River @ bridge	ND	358571	5407322	Heaz-1	6.67	0.12	41.00	2.00	4.00	0.016	0.005	0.001	0.003	0.107	0.005	0.005	0.003	0.145	0.027	0.005	0.001	0.001	0.161	0.005	0.005	0.001	17.8	2461	Gurung, 2001	
12/03/1996	Heazlewood River @ Mt Cleaveland Road	ND	361700	5410800	A20	6.00	0.11			2.00								0.006										14.5		Krasnicki	
10/04/2000	Heddles Road	ND	235218	5587165	GWB-8	7.04	0.88	49.00	403.00	40.00	0.242	0.005	0.001	0.006	0.090	0.005	0.005	0.037	0.391	0.576	0.007	0.001	0.004	3.600	0.063	0.005	0.018	10.8	4993	Gurung, 2000	
06/01/1992	Heemskirk River	ND	351796	5369142	Heemskirk	4.45	0.06			2.00			0.001	0.001	0.220	0.030	0.001	0.040	0.293									14.1		Koehnken	
09/03/1993	Hellyer discharge to Que River	MD	391555	5396350	H8	4.30	0.27			86.50		0.005	0.027	0.160	3.585	0.910	0.099	9.150	13.936											WMRL EMP	
03/02/2000	Henty River @ Zeehan Hwy	ND	373309	5349607	Henty1	6.92	0.10	19.00	4.00	3.90	0.010	0.005	0.001	0.001	0.022	0.005	0.005	0.001	0.050	0.030	0.005	0.001	0.001	0.078	0.006	0.005	0.001	18.0	1488	Gurung, 2001	
01/03/2000	Hercules adit 6L	MD	376528	5366812	FM	2.95	1.23																					15.8		Gurung, 2001	
01/03/2000	Hercules adit 7L	MD	376457	5366917	FM	4.15	1.13																					13.8		Gurung, 2001	
20/03/2000	Hercules adit composite	MD	376412	5367296	HAC	3.18	2.23	30.17		26.978		24.648	0.794	0.641	49.052	49.635	27.394	429.460	608.602									8.8		Pasminco	
01/03/2000	Hercules composite flow	MD	376412	5367296	FM	3.16	1.01																					14.6		Gurung, 2001	
21/01/1998	Hogarth's Rivulet @ Cuckoo Rd	ND	548900	5437100	3473	5.86	0.07			2.00	0.314		0.001	0.001	0.180	0.010	0.001	0.002	0.509									13.7		Hydrol	
19/03/2000	Huskisson River	ND	369075	5374691	HUS	6.01	0.07			13.96	0.142	0.003		0.026	0.342	0.124		0.053	0.690					0.770	0.130		0.080	11.7		Renison	
07/01/1992	Huskisson River	ND	370463	5378079	Huskisson	6.57	0.10	12.80		38.00			0.001	0.002	0.120	0.060	0.001	0.510	0.694									13.8		Koehnken	
05/02/2000	Huskisson River below bridge	ND	370144	5378498	Huskisson-1	6.46	0.24	12.00	3.00	65.00	0.049	0.005	0.001	0.001	0.167	0.010	0.005	0.030	0.268	0.126	0.005	0.001	0.002	0.442	0.038	0.005	0.037	17.1	2457	Gurung, 2001	
27/03/1997	Huskisson @ Huskisson River Road	ND	375563	5392750	AT11	6.97	0.08						0.001	0.009			0.006	0.156	0.172									11.8		Krasnicki	
19/03/1997	Huskisson @ Pieman Road	ND	370207	5378533	AT12	5.80	0.10						0.001	0.004			0.001	0.024	0.030									13.0		Krasnicki	
19/03/1994	Idaho Creek > Linda	MD	384317	5342085	25	3.20		75.00	63.00					1.700	4.100																Miedecke
03/03/2000	Idaho Creek > Linda Creek	MD	384178	5342174	RLINDA-1	3.38	0.34	1.00	60.00	460.00	4.360	0.005	0.004	1.570	2.740	4.560	0.070	1.110	14.419	4.470	0.008	0.004	2.090	4.030	4.660	0.070	1.180	17.6	3534	Gurung, 2001	
03/10/1997	Inflow to Storys	MD	561054	5390467	Medec_3	6.10	0.04	20.00	1.00	0.72	0.100		0.010	0.002	0.100	0.100	0.001	0.051	0.364	0.100		0.000	0.000	0.100	0.100	0.000	0.050			Miedecke	
13/01/1998	Influent Creek to Ringarooma River	MD	588166	5464341	S4	5.80	0.21			0.50	2.830		0.001	0.006	60.300	0.078	0.003	0.015	63.233									980100		SEMF, 1998	
16/05/2000	Iris River	ND	421349	5406856	Iris R	6.74	0.03	5.00	3.00	0.59	0.105	0.005	0.001	0.001	0.087	0.005	0.005	0.001	0.210	0.118	0.005	0.001	0.001	0.109	0.005	0.005	0.001	7.4	6293	Gurung, 2001	
19/06/1997	Junction mine	MD	360425	5362650	ZWSS5	3.44	0.57	526.50			2.861	0.009	0.042	0.176	11.915	2.352	0.689	9.758	27.802									9.1		Parr, 1997	
04/06/1998	Jupiter	MD	376750	5369770	Dell_3	5.48	0.20			94.10	0.250	0.048	0.031	0.057	2.680	8.300	0.028	18.500	29.894									9.7		Dellar, 1998	
19/06/1997	Keel Ridge Creek	ND	361094	5360588	recon17	6.00							0.040		0.610	0.282	0.180	0.048	1.160									12.7		Parr, 1997	
11/12/2000	Killiecrankie Creek	ND	572663	5588523	KC Creek	4.53	0.87	1.00	41.00	14.00	2.380	0.005	0.001	0.001	3.210	0.008	0.005	0.003	5.613	2.590	0.005	0.001	0.001	3.380	0.008	0.005	0.002	17.7	14788	Gurung, 2001	
30/03/1995	Killymoon	ND	588000	5394500	191	7.15	0.16					0.010	0.001	0.001			0.001	0.005	0.018									12.8		Hydrol	
02/02/2000	King River	MD	368192	5327020	KR7	5.67	0.06	1.00	6.00	9.00	0.099	0.005	0.001	0.043	0.141	0.120	0.005	0.021	0.435	0.386	0.005	0.001	0.074	1.400	0.129	0.005	0.028	15.8	1414	Gurung, 2001	
02/02/2000	King River	MD	368672	5326805	KR5	5.32	0.06	1.00	6.00	10.00	0.098	0.005	0.001	0.040	0.152	0.116	0.005	0.020	0.437	0.364	0.005	0.001	0.072	1.050	0.125	0.005	0.027	15.8	1411	Gurung, 2001	
02/02/2000	King River @ Cryptic Falls	MD	366354	5326934	KR11	5.57	0.06	3.00	6.00	11.00	0.100	0.005	0.001	0.056	0.092	0.128	0.005	0.022	0.409	0.391	0.005	0.001	0.083	1.180	0.134	0.005	0.027	15.4	1404	Gurung, 2001	
01/02/2000	King River @ Mt Jukes Road	MD	378671	5331509	KR1	6.12	0.09	16.00	7.00	2.70	0.027	0.005	0.001	0.001	0.053	0.005	0.005	0.002	0.099	0.170	0.005	0.001	0.006	0.143	0.005	0.005	0.005	15.7	1418	Gurung, 2001	
02/02/2000	King River @ Teepookana	MD	365017	5327294	KR13	5.92	0.07	2.00	6.00	10.00	0.085	0.005	0.001	0.044	0.107	0.132	0.005	0.022	0.401	0.369	0.005	0.001	0.080	1.390	0.137	0.005	0.039	15.3	1405	Gurung, 2001	
17/06/1995	King River > Comstock	ND	388866	5343386		6.40				1.00				0.002	0.200	0.015		0.002	0.219											Miedecke, 1996	
02/02/2000	King River > Iron bridge	MD	370128	5327811	KR3	6.34	0.06	7.00	6.00	9.40	0.077	0.005	0.001	0.001	0.147	0.005	0.005	0.001	0.242	0.371	0.005	0.001	0.072	1.020	0.126	0.005	0.025	15.5	1403	Gurung, 2001	
02/02/2000	King River 2 km downstream	MD	367282	5327052	KR9	5.72	0.06	1.00	5.00	8.80	0.100	0.005	0.001	0.043	0.141	0.118	0.005	0.020	0.433	0.381	0.005	0.001	0.071	1.160	0.127	0.005	0.027	15.5	1408	Gurung, 2001	
02/02/2000	King River mouth	MD	364313	5327404	KR15	6.67	19.72	46.00	8.00	1800.00	0.020	0.005	0.001	0.011	0.020	0.005	0.006	0.001	0.069	0.124	0.005	0.001	0.028	0.196	0.020	0.007	0.004	15.4	1402	Gurung, 2001	
19/01/2000	Kings Meadows Rivulet @ Punchbowl	ND	514250	5410800	NE 3	7.10	2.72				0.050	0.005	0.001	0.001			0.002	0.023	0.082									18.2		Hydrol	
03/06/1998	Koonya lower adit	MD	378350	5370780	Dell_9	6.18	0.10			38.80	0.750	0.012	0.009	0.038	6.460	3.940	0.510	11.100	22.819									10.0		Dellar, 1998	
03/06/1998	Koonya upper adit	MD	378428	5370802	Dell_8	3.72	0.10			125.00	0.360	0.016	0.005	0.0270	2.390	0.150	0.069	2.210	5.470									6.8		Dellar, 1998	
11/05/2000	Lacrum dairy	ND	335581	5476932	GWBH-23	7.15	0.95	431.00	17.00	14.00	0.010	0.005	0.001	0.001	0.069	0.060	0.005	0.001	0.152	0.010	0.005	0.001	0.001	2.030	0.064	0.005	0.001	13.2	6203	Gurung, 2000	
11/04/2000	Lake Martha	ND	248390	5606895	FM	7.11	1.39																					12.4		Gurung, 2001	
13/01/1998	Large sediment retention dam	MD	587299	5464941	S2	5.90	0.13			11.00	449.000		0.001	0.063	112.000	0.267	0.155	0.135	561.621									980098		SEMF, 1998	
21/01/1998	Ledgerwood Rivulet @ Ringarooma Road	ND	558800	5436025	3490	5.85	0.09			1.60	0.000		0.001	1.540	0.047	0.230	0.003	0.029	1.850									22.4		Hydrol	
22/01/1998	Ledgerwood Rivulet @ Warrentinna Road	ND	561625	5443375	3489	6.59	0.11																					18.7		Hydrol	
20/03/2000	Level 4_adit	MD	376618	5366511	A4	3.04	1.24	0.05	89.00	908.17				4.104	38.512	8.950	0.863	215.344	268.214												Pasminco
20/03/2000	Level 5_adit	MD	376528	5366823	A5	2.67	2.83		35.91	2124.88			1.215	10.524	190.206	52.428	1.149	637.355	892.877												Pasminco
20/03/2000	Level 6_adit	MD	376533	5367816	A6	2.97	2.76	0.03	0.11	1326.66	46.552	43.909	0.957	4.361	93.422	52.998	1.337	541.806	785.342									8.2		Pasminco	
20/03/2000	Level 7_adit	MD	376451	5366915	A7	4.66	1.36	6.62	2.32	334.63	10.008	12.682	0.16																		

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source	
01/02/2000	Linda Creek < Iron Blow	MD	383723	5341222	ML7	6.55	0.12	29.00	3.00	7.20	0.010	0.005	0.001	0.003	0.020	0.016	0.005	0.003	0.063	0.117	0.005	0.001	0.016	0.246	0.025	0.007	0.031	16.7	1425	Gurung, 2001	
03/03/2000	Linda Creek < Whites Creek	MD	384014	5342033	LINDA-1	2.46	3.95	1.00	2900.00	10000.00	168.000	0.016	0.001	23.500	190.000	17.000	0.013	1.800	400.330	243.000	0.034	0.001	44.400	703.000	22.900	0.016	4.820	17.9	3532	Gurung, 2001	
03/03/2000	Linda Creek d/s	MD	385851	5341521	RLINDA-3	6.12	0.21	55.00	4.00	40.00	0.015	0.005	0.001	0.052	0.020	0.560	0.005	0.001	0.659	2.010	0.015	0.001	0.378	4.320	0.545	0.010	0.217	18.0	3535	Gurung, 2001	
01/02/2000	Linda Ck inflow from WRD	MD	383697	5341811	ML3	2.08	0.45	1.00	2250.00	9100.00	16.700	1.350	0.033	5.150	300.000	3.440	0.062	8.030	334.765	17.000	1.350	0.032	5.170	300.000	3.460	0.059	8.010	16.2	1417	Gurung, 2001	
03/03/2000	Linda Ck trib @ Lyell Highway	MD	383773	5341158	OWEN-3	6.04	0.11	27.00	2.00	9.70	0.172	0.005	0.001	0.016	0.362	0.086	0.012	0.067	0.721	0.261	0.026	0.001	0.027	0.698	0.086	0.021	0.083	16.8	3530	Gurung, 2001	
01/02/2000	Linda Ck trib NE Iron Blow	MD	383691	5341852	ML5	2.63	1.31	1.00	332.00	1400.00	0.096	0.005	0.001	0.040	0.142	0.109	0.005	0.020	0.418	3.900	0.045	0.006	1.490	64.500	2.950	0.066	1.600	16.3	1423	Gurung, 2001	
19/05/1993	Linda Creek, lower	MD	387052	5340959	16	3.60			56.00	69.00				0.940	4.760															Miedecke	
20/01/2000	Lisle Ck @ Bessells Rd bridge	ND	526607	5436217	FM	6.41	0.09																							Gurung, 2001	
16/03/2000	Lisle Creek @ Golconda Road	ND	528137	5444127	Sukck-1	5.33	0.12	3.00	8.00	2.90	0.623	0.005	0.001	0.001	0.602	0.013	0.005	0.005	1.255	1.330	0.005	0.001	0.003	1.480	0.021	0.005	0.018	17.5	3943	Gurung, 2001	
09/02/2001	Little Forester River	ND	529523	5461313	FM	6.97	14.52																							Gurung, 2001	
19/06/1997	Little Henty < Zeehan Rivulet	ND	363463	5360458	recon21	6.54																								Parr, 1997	
03/02/2000	Little Henty > bridge	ND	363423	5361251	LHENTY1	7.44	0.10	10.00	4.00	5.30	0.065	0.005	0.001	0.002	0.238	0.005	0.005	0.005	0.326	0.146	0.005	0.001	0.003	0.524	0.016	0.005	0.010	17.1	1491	Gurung, 2001	
19/06/1997	Little Henty River	ND	364246	5356815	recon27	7.01								0.004	0.307	0.153	0.067	0.035	0.566											Parr, 1997	
19/05/1999	Little Henty River @ Strahan Road Bridge	ND	364530	5354701	ZH001	5.84	0.11	2.00	10.00	5.80	0.212	0.001	0.001	0.006	0.488	0.055	0.014	0.148	0.925											Earth Systems	
19/05/1999	Little Henty R @ Zeehan Hwy	ND	363403	5361229	ZH008	5.46	0.11	2.00	8.00	21.00	0.156	0.001	0.001	0.008	0.412	0.005	0.001	0.047	0.631											Earth Systems	
19/06/1997	Little Henty River > Zeehan Rt	ND	363721	5360590	recon20	6.85								0.002	0.693	0.131	0.325	0.019	1.170											Parr, 1997	
10/04/1995	Little Henty @ Zeehan Hwy	ND	364876	5362559	A16	5.30	0.10			7.00				0.014			0.002	0.026	0.043											Krasnicki	
19/06/1997	Little Henty_H1	ND	364839	5356585	ZWSS3	7.36	0.14	10.50		12.20	0.143			0.001	0.286	0.014		0.012	0.456											Parr, 1997	
19/06/1997	Little Henty_H4	ND	363467	5360580	ZWSS4	6.40	0.08	8.00		8.50	0.057		0.002	0.001	0.325	0.184		0.282	0.851											Parr, 1997	
08/04/2000	Little Porky Creek	ND	234201	5584725	FM	5.99	1.41																							Gurung, 2001	
13/04/2000	Lodges Farm	ND	242633	5562980	GWB-17	6.36	0.52	35.00	106.00	28.00	0.133	0.005	0.001	0.002	2.920	0.660	0.005	0.010	3.736	0.681	0.005	0.001	0.031	69.200	0.954	0.008	1.730	12.1	5230	Gurung, 2000	
09/03/1995	Lost Creek@ Zepplin Road	ND	362000	5342600	A13	6.20	0.09			34.00			0.001	0.002			0.001	0.005	0.009											Krasnicki	
06/12/2000	Lovett Creek @ Big River Road	ND	590025	5544345	Lovett Ck	6.55	0.80	1.00	31.00	12.00	1.730	1.810	0.005	0.005	0.001	0.001	0.001	0.001	3.554	0.799	1.200	0.009	0.009	0.005	0.005	0.005	0.006	15.6	14624	Gurung, 2001	
03/03/2000	Lyell Creek @ Lyell Hwy	MD	382423	5340754	LYELL-5	4.18	0.09	1.00	15.00	50.00	0.055	0.005	0.001	0.020	4.010	0.018	0.005	0.001	4.115	0.053	0.035	0.001	0.029	6.370	0.017	0.005	0.005	16.9	3528	Gurung, 2001	
02/02/2000	Lynch Creek > Queen River	ND	378547	5336588	TRACK1	5.05	0.04	1.00	5.00	1.80	0.050	0.005	0.001	0.002	0.043	0.021	0.005	0.006	0.133	0.063	0.005	0.001	0.003	0.086	0.025	0.005	0.005	14.7	1410	Gurung, 2001	
18/05/2000	Machinery Creek	ND	429288	5406862	Mach. ck-3	6.65	0.11	8.00	5.00	11.00	0.250	0.005	0.001	0.001	0.627	0.048	0.005	0.036	0.973	0.296	0.005	0.001	0.001	0.789	0.049	0.005	0.038	8.4	6409	Gurung, 2001	
18/05/2000	Machinery Creek	ND	429355	5406801	Mach. ck-1	6.65	0.12	22.00	3.00	8.10	0.090	0.005	0.001	0.001	0.159	0.016	0.005	0.003	0.280	0.109	0.005	0.001	0.001	0.234	0.029	0.005	0.003	8.3	6407	Gurung, 2001	
18/05/2000	Machinery Creek	ND	429379	5406807	Mach. ck-2	6.45	0.12	20.00	3.00	10.00	0.174	0.005	0.001	0.001	0.830	0.055	0.007	0.050	1.123	0.217	0.005	0.001	0.001	1.010	0.059	0.009	0.056	8.7	6408	Gurung, 2001	
14/04/2000	Macks Creek @ South Road	ND	237439	5556417	FM	6.05	0.96																							Gurung, 2001	
19/06/1995	Magazine Creek	MD	381378	5342188	MC	2.90	1.45			843.00	40.000			9.200	53.000	8.100		110.300												Miedecke	
16/02/2000	Magnet Ck @ Magnet Road	ND	370045	5410540	Magnet-1	6.86	0.06	8.00	4.00	2.40	0.019	0.005	0.001	0.001	0.169	0.011	0.005	0.003	0.214	0.049	0.005	0.001	0.005	0.325	0.018	0.005	0.002	17.5	2462	Gurung, 2001	
16/02/2000	Magnet Ck > Arthur River	ND	372813	5411793	FM	4.71	0.76																							Gurung, 2001	
21/06/2000	Main Creek @ Savage River	MD	347050	5399450	MCaSR	5.24				7.25	243.33	1.843	0.001	0.001	0.305	0.020	1.763	0.002	0.002	3.937	0.060	2.690	0.000	0.000	0.310	0.820	1.820	66.3		DELM, 2000	
24/07/1997	Main Creek < B dump	MD	349744	5403452	SR_S7	3.89	1.77	4.00	34.00	1200.00	40.800	0.001	0.002	4.290	4.100	18.200	0.001	0.709	68.103	40.800	0.000	0.000	4.290	4.100	18.200	0.000	0.710			ESR/CR 698/3	
24/07/1997	Main Creek > B dump	MD	350095	5403965	SR_S6	3.24	2.00	1.00	67.00	1723.00	28.500	0.001	0.001	2.940	3.050	7.510	0.001	0.294	42.297	28.500	0.000	0.000	2.940	3.050	7.510	0.000	0.290			ESR/CR 698/3	
24/07/1997	Main Ck tailing dam overflow	MD	350338	5403818	SR_S12	4.04	0.60	1.00	21.00	303.00	0.961	0.001	0.001	0.109	0.548	0.655	0.002	0.043	2.320	0.980	0.000	0.000	0.110	3.340	0.680	0.000	0.040			ESR/CR 698/3	
13/01/1998	Man-made lake	ND	587415	5465623	S11	8.10	0.21			3.30	2.740		0.001	0.005	7.020	0.122	0.001	0.008	9.897											980107	SEMF, 1998
27/10/1992	Marionoak River	ND	376170	5378453	Marionoak	4.87	0.06	0.40		2.00			0.001	0.001	0.340	0.030	0.001	0.030	0.403											9.9	Koehnken
05/12/2000	Markarna Park	ND	588193	5582230	GWB-2	7.62	2.85	361.00	17.00	87.00	0.010	0.202	0.005	0.005	0.001	0.001	0.001	0.001	0.226	0.036	0.991	0.025	0.029	0.005	0.005	0.002	0.003	16.5	14618	Gurung, 2000	
18/05/2000	McBrides Creek @ Ironcliff Rd	ND	418789	5444665	McBrides ck	7.02	0.12	9.00	4.00	5.10	0.010	0.005	0.001	0.003	0.321	0.037	0.005	0.009	0.391	0.027	0.005	0.001	0.001	0.551	0.046	0.005	0.008	11.5	6411	Gurung, 2001	
02/03/1997	McLean Ck @ Swansea mine	MD	359484	5358115	recon35	3.69								0.002	0.406	0.598		0.117	1.123											13.4	Parr, 1997
02/03/1997	McLean Creek > Tasmania mine	MD	358786	5369299	recon34	4.11								0.006	0.882	0.473		0.858	2.219											14.1	Parr, 1997
15/03/1996	MD from South Comet adit	MD	371026	5361513	Law_14	6.10	1.74	27.40		919.80	0.000			0.001	4.892	79.996	0.075	64.558	149.522												Lawrence, 1996
12/04/2001	Mella Road drain	ND	337185	5476289	FM	5.35	1.52																							17.0	Gurung, 2001
12/04/2001	Mella Road drain	ND	336896	5476945	FM	2.86	2.61																							17.1	Gurung, 2001
12/04/2001	Mella Road drain	ND	336589	5475579	FM	3.03	2.89																							16.1	Gurung, 2001
12/04/2001	Mella Road drain	ND	336288																												

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
12/04/2001	Melugas Road drain	ND	336412	5475486	FM	3.60	23.57																				17.0		Gurung, 2001	
17/06/1995	Mine adit drainage from Stormdowne	MD	360247	5361929	QH2	2.80	1.03								71.700		2.840													Ladiges, 1995
31/01/2000	Mine discharge	MD	393240	5396070	H17	4.30	0.86	5.00		400.00		0.027	0.014	0.150	0.570	1.340	2.820	6.370	11.291											WMRL EMP
09/12/2000	Mines Creek @ Palana Road	ND	575318	5584959	Mines Ck-1	6.40	0.56	5.00	23.00	2.50	1.930	2.170	0.005	0.005	0.001	0.001	0.001	0.002	4.115	1.670	2.540	0.005	0.005	0.005	0.005	0.005	0.012	15.8	14768	Gurung, 2001
09/12/2000	Mines Creek @ West End Road	ND	574449	5584111	Mines Ck	5.35	0.61	1.00	24.00	11.00	1.900	2.380	0.005	0.005	0.001	0.001	0.002	0.001	4.295	1.520	3.490	0.005	0.005	0.005	0.005	0.011	0.009	18.8	14766	Gurung, 2001
16/05/2000	Moina mine adit	MD	423235	5406493	Moina adit	3.88	0.67	31.00	14.00	32.00	0.155	0.005	0.001	0.001	0.027	0.013	0.005	0.012	0.219	1.070	0.005	0.001	0.007	9.510	1.020	0.005	0.037	12.1	6292	Gurung, 2001
24/03/2000	Monarch pond	MD	575686	5465552	Monarch Pond	3.07	1.06	1.00	212.00	1100.00	28.300	0.019	0.301	0.100	5.220	1.400	0.009	2.750	38.099	28.300	0.021	0.300	0.101	5.310	1.390	0.005	2.740	12.2	4324	Gurung, 2001
03/01/1998	Monarch Lake	ND	576753	5464533	M4	6.30	0.31			9.00	2.710		0.001	0.004	1.320	0.010	0.005	0.009	4.059										980094	SEMF, 1998
10/05/2000	Montagu River @ Bass Hwy	ND	321735	5463385	Montagu-1	7.24	0.23	30.00	3.00	24.00	0.047	0.005	0.001	0.058	0.119	0.005	0.005	0.011	0.251	0.092	0.005	0.001	0.002	0.285	0.014	0.005	0.001	13.5	6194	Gurung, 2001
10/05/2000	Montagu River @ Montagu Road bridge	ND	325872	5483562	Montagu-3	7.89	0.76	275.00	4.00	13.00	0.017	0.005	0.001	0.001	0.102	0.005	0.005	0.002	0.138	0.053	0.005	0.001	0.001	0.741	0.042	0.005	0.003	13.7	6198	Gurung, 2001
10/05/2000	Montagu R @ Rennison Road	ND	321074	5468232	Montagu-2	7.05	0.61	217.00	12.00	7.40	0.010	0.005	0.001	0.002	0.216	0.005	0.005	0.002	0.246	0.031	0.005	0.001	0.001	1.200	0.030	0.005	0.001	14.1	6195	Gurung, 2001
11/05/2000	Mowbray	ND	335879	5476724	GWBH-24	7.07	0.88	398.00	28.00	4.10	0.010	0.005	0.001	0.001	0.066	0.095	0.005	0.001	0.184	0.010	0.009	0.001	0.001	3.930	0.101	0.005	0.001	13.1	6204	Gurung, 2000
11/05/2000	Mowbray	ND	335684	5477672	GWBH-22	8.20	1.20	456.00	1.00	7.60	0.010	0.005	0.001	0.001	0.020	0.010	0.006	0.001	0.054	0.010	0.005	0.001	0.001	0.117	0.018	0.008	0.001	13.9	6201	Gurung, 2000
16/03/2000	Mt Cameron water race @ Lanka Road	ND	589433	5457217	Wrace-2	5.46	0.13	1.00	9.00	3.10	1.080	0.005	0.001	0.001	0.829	0.032	0.005	0.005	1.958	1.570	0.005	0.001	0.002	1.120	0.035	0.005	0.003	17.0	3939	Gurung, 2001
16/03/2000	Mt Cameron water race @ Lanka Road	ND	589032	5454258	Wrace-1	4.27	0.17	1.00	20.00	3.00	0.865	0.005	0.001	0.001	1.800	0.077	0.005	0.021	2.775	1.150	0.005	0.001	0.003	2.090	0.078	0.005	0.014	17.2	3938	Gurung, 2001
16/03/2000	Mt Cameron water race S Starhill	ND	589261	5463352	Wrace-3	5.56	0.05	2.00	8.00	3.20	0.740	0.005	0.001	0.001	0.620	0.007	0.005	0.004	1.383	1.450	0.005	0.001	0.002	1.190	0.011	0.005	0.006	17.1	3940	Gurung, 2001
01/02/2000	Mt Owen Creek @ Lyell Hwy	ND	384927	5341546	Cem1	6.55	0.12	2.00	4.00	120.00	0.018	0.005	0.001	0.016	0.020	0.005	0.005	0.021	0.091	0.041	0.005	0.001	0.024	0.129	0.005	0.005	0.029	16.2	1424	Gurung, 2001
11/02/1992	Murchison River	ND	398061	5365392	Murchison R	5.28	0.05	5.20		4.00			0.001	0.001	0.100	0.030		0.001	0.020	0.153								16.2		Koehnken
19/01/2000	Musselboro Creek > North Esk	ND	537600	5407850	NE 25	7.40	0.07				0.072	0.005	0.001	0.001			0.001	0.002	0.082									22.9		Hydrol
15/03/2000	Musselroe River @ Tebrakunna Road	ND	589110	5450828	Musselck	5.86	0.09	2.00	7.00	2.20	0.341	0.005	0.001	0.001	0.272	0.009	0.005	0.001	0.635	0.470	0.005	0.001	0.001	0.702	0.014	0.005	0.003	15.5	3921	Gurung, 2001
06/12/2000	Nalinga Creek	ND	589478	5556038	Nalinga Ck-2	7.24	2.84	352.00	6.00	110.00	0.010	0.010	0.005	0.005	0.001	0.001	0.002	0.001	0.035	0.032	0.020	0.005	0.005	0.005	0.005	0.012	0.001	16.8	14621	Gurung, 2001
06/12/2000	Nalinga Creek	ND	588032	5555937	Nalinga Ck-1	7.42	2.90	125.00	6.00	90.00	0.290	0.687	0.005	0.005	0.001	0.001	0.011	0.005	1.005	0.320	1.560	0.005	0.182	0.005	0.008	0.144	0.180	16.0	14619	Gurung, 2001
15/05/2000	Narrawah Creek @ Dolcoath Hill Road	MD	424304	5406249	Narrawah Ck-1	4.00	0.05	1.00	18.00	2.30	0.843	0.005	0.001	0.001	0.216	0.015	0.005	0.001	1.087	0.870	0.005	0.001	0.001	0.217	0.015	0.005	0.007	9.6	6288	Gurung, 2001
16/05/2000	Narrawah Creek < All Nations alluvial	MD	424301	5406170	Narrawah ck-2	3.81	0.07	1.00	23.00	3.90	0.839	0.005	0.001	0.001	0.468	0.009	0.005	0.001	1.329	0.842	0.005	0.001	0.001	0.464	0.009	0.005	0.010	8.4	6294	Gurung, 2001
16/05/2000	Narrawah Creek S Wilmot PS	ND	426734	5406941	FM	6.45	0.30																					12.2		Gurung, 2001
15/05/2000	Narrawah Creek trib @ DH Rd	ND	424694	5406212	FM	5.44	0.02																					10.6		Gurung, 2001
04/02/2000	Natone Creek tributary @ Williamsford Road	ND	376668	5370380	WRCK1	7.21	0.07	5.00	3.00	22.00	0.026	0.005	0.001	0.001	0.044	0.005	0.005	0.002	0.089	0.055	0.005	0.001	0.001	0.099	0.014	0.005	0.006	18.2	1499	Gurung, 2001
04/02/2000	Natone Creek @ Williamsford Road	ND	376481	5369161	WRCK3	7.19	0.06	2.00	4.00	4.00	0.038	0.005	0.001	0.007	0.086	0.027	0.005	0.036	0.205	0.095	0.005	0.001	0.012	0.329	0.058	0.005	0.043	18.7	1500	Gurung, 2001
04/02/2000	Natone Ck < cemetery reserve	MD	376399	5371018	WRCK7	4.43	0.18	1.00	18.00	46.00	0.148	0.005	0.004	0.033	0.020	1.540	0.207	3.300	5.257	0.148	0.005	0.004	0.025	0.994	1.580	0.212	3.290	18.2	1502	Gurung, 2001
07/03/1995	Nelson River @ Lyell Highway	ND	395100	5337700	A04	6.80	0.14			13.00			0.001	0.001			0.001	0.005	0.008									14.1		Krasnicki
08/12/2000	Nelsons Drain @ Dutchmans Road	ND	601154	5560107	Tobacco Ck	8.22	3.57	172.00	5.00	20.00	0.116	0.158	0.005	0.005	0.001	0.001	0.005	0.001	0.292	0.792	0.384	0.005	0.076	0.005	0.005	0.035	0.006	21.0	14761	Gurung, 2001
21/01/2000	New River @ Singline bridge site	ND	567492	5431143	FM	6.01	0.06																					14.0		Gurung, 2001
22/01/1998	New River @ Singline Road	ND	567450	5431175	3492	4.88	0.08			1.80	0.000		0.001	0.016	0.005	0.050	0.001	0.002	0.075									16.6		Hydrol
02/02/2000	Newall Creek @ Mt Jukes Road	ND	379265	5331038	NEWALL1	6.34	0.10	21.00	3.00	2.70	0.018	0.005	0.001	0.001	0.062	0.005	0.005	0.002	0.099	0.166	0.005	0.001	0.008	0.173	0.005	0.005	0.004	17.5	1407	Gurung, 2001
23/03/2000	Nicholl's lode trench	MD	578786	5442137	Nicholls Lode	6.10	0.06	6.00	12.00	0.72	0.055	0.005	0.001	0.013	0.172	0.052	0.005	0.005	0.308	0.107	0.005	0.001	0.024	0.705	0.055	0.005	0.008	11.0	4316	Gurung, 2001
13/03/1997	Nike Creek	MD	361424	5361576	ZWSS6	5.73	0.42	66.20		1.80	0.061	0.010	0.005	0.004	1.561	1.492	0.166	1.534	4.833									11.4		Parr, 1997
13/03/1997	Nike Creek	ND	361681	5362013	recon11	6.52							0.007		0.444	0.823	0.868	0.024	2.166									15.0		Parr, 1997
13/03/1997	Nike Creek	ND	360812	5361351	recon13	5.22							0.005		0.738	1.478	1.081	0.156	3.458									10.9		Parr, 1997
13/03/1997	Nike Creek	ND	361365	5361512	recon14	6.79							0.010		0.436	1.985	2.155	0.085	4.671									14.5		Parr, 1997
24/06/2000	Nike Creek @ Zeehan Highway	MD	361412	5361570	Nike Ck	5.54	0.20	5.00	4.00	12.00	0.070	0.005	0.007	0.004	0.308	0.876	0.183	1.550	3.003	0.216	0.006	0.007	0.007	0.757	0.947	0.325	1.700	11.3	8057	Gurung, 2001
18/05/1999	Nike Creek > Peasoup Creek	ND	361706	5362041	ZH010	5.36	0.16	1.00	11.00	39.00	0.050	0.001	0.002	0.001	0.020	1.580	0.080	1.440	3.174									9.8		Earth Systems
13/03/1997	Nike Creek Tributary	MD	360633	5361270	recon12	3.54																						14.9		Parr, 1997
01/09/1998	Nisbet Creek	ND	560886	5389562	Medec_12	6.50	0.04	9.00	3.00	2.10	0.059			0.003	0.020	0.005	0.001	0.061	0.151	0.100		0.000	0.070	0.230	0.010	0.000	0.070			Miedecke
13/03/1997	Nike Creek	ND	359989	5360740	recon16	7.14							0.006		0.346	1.545	0.													

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
19/01/2000	North Esk @ Camden Road	ND	544500	5408050	NE 20	7.00	0.07				0.069	0.005	0.001	0.001			0.001	0.001	0.078								19.9		Hydrol	
19/01/2000	North Esk @ Corra Linn	ND	519300	5406800	NE 32	7.40	0.07				0.151	0.005	0.001	0.001			0.001	0.001	0.160								20.3		Hydrol	
19/01/2000	North Esk @ Mussellboro Road	ND	535950	5406200	NE 26	7.30	0.07				0.142	0.005	0.001	0.001			0.001	0.021	0.171								22.5		Hydrol	
19/01/2000	North Esk @ Phillips Road	ND	544150	5415650	NE 19b	7.10	0.07				0.093	0.005	0.001	0.001			0.001	0.005	0.106								18.0		Hydrol	
19/01/2000	North Esk @ White Hills	ND	521450	5405400	NE 30	7.40	0.07				0.062	0.005	0.001	0.001			0.001	0.001	0.071								19.9		Hydrol	
19/01/2000	North Esk < Norwood STP	ND	515500	5410500	NE 2	7.10	0.08				0.115	0.005	0.001	0.001			0.001	0.003	0.126								22.7		Hydrol	
19/01/2000	North Esk < Kings Meadows Rivulet	ND	514200	5411100	NE 1	6.60	0.09				0.105	0.005	0.001	0.001			0.001	0.003	0.116								21.1		Hydrol	
19/01/2000	North Esk > Clarks Ford bridge	ND	515750	5409700	NE 4	6.80	0.07				0.119	0.005	0.001	0.001			0.001	0.003	0.130								21.6		Hydrol	
19/01/2000	North Esk > St Patricks	ND	528400	5407850	NE 28	7.60	0.07				0.097	0.005	0.001	0.001			0.001	0.001	0.106								18.8		Hydrol	
19/01/2000	North Esk off Camden Road	ND	543900	5410950	NE 19a	7.00	0.06				0.068	0.005	0.001	0.001			0.001	0.002	0.078								18.6		Hydrol	
23/03/2000	North George @ bridge	ND	584132	5429417	Ngeorge	6.30	0.07	11.00	3.00	1.50	0.017	0.005	0.001	0.001	0.228	0.005	0.005	0.001	0.263	0.087	0.005	0.001	0.001	0.514	0.027	0.005	0.002	15.3	4314	Gurung, 2001
24/07/1997	North pit	MD	350535	5407651	SR_S13	6.69	1.70	123.00	5.00	952.00	0.037	0.001	0.001	0.059	0.057	0.057	0.001	0.022	0.235	0.140	0.000	0.000	0.130	0.300	0.550	0.000	0.030			ESR/CR 698/3
08/03/1995	North Eldon @ Lake Burbury	ND	391700	5347000	A05	6.20	0.10			8.00				0.001	0.001			0.005	0.008									16.7		Krasnicki
31/03/1997	Old Spray	MD	360290	5360040	recon37	5.87									0.717	0.677												11.6		Parr, 1997
31/03/1997	Old Spray seepage	MD	360461	5360141	recon38	6.21									4.616	0.854												11.9		Parr, 1997
31/03/1997	Oceana	MD	362163	5357503	ZWSS7	4.34	0.08	16.60			0.245	0.005	0.001	0.001	0.308	0.024	0.030	0.035	0.649								8.6		Parr, 1997	
31/03/1997	Oceana	ND	362559	5357500	ZWSS9	7.47	0.15	7.68		37.38	0.098	0.008		0.001	0.504	0.356	0.011	0.048	1.026								8.9		Parr, 1997	
18/03/1997	Oceana Adit	MD	362200	5357227	ZWSS8	5.49	0.15	13.80		7.66	0.097	0.007	0.003	0.003	3.244	0.147	0.325	0.345	4.171								11.1		Parr, 1997	
18/03/1997	Oceana Adit	MD	362216	5357504	recon39	5.48									0.864	1.449											10.5		Parr, 1997	
18/03/1997	Oceana seepage	ND	362311	5357217	ZWSS10	7.11	0.31	17.07		115.98	0.026	0.007			0.144	1.348	0.008	0.065	1.598								10.7		Parr, 1997	
18/03/1997	Oceana variable	MD	362448	5357411	ZWSS11	5.87	0.13	7.35		14.89	0.169	0.008		0.002	0.490	0.228	0.040	0.062	0.999								8.9		Parr, 1997	
07/12/2000	Officers Creek @ Memana Rd	ND	589451	5563691	FGWB-5	4.35	0.70	277.00	5.00	41.00	0.052	2.040	0.005	0.018	0.001	0.001	0.022	0.611	2.750	0.025	7.130	0.014	0.207	0.005	0.054	0.018	0.226	14.7	14633	Gurung, 2001
19/01/2000	Old Mill Creek @ Blessington Road	ND	540700	5405250	NE 24	7.00	0.48				0.597	0.005	0.001	0.001			0.001	0.005	0.610								29.6		Hydrol	
18/03/1997	Old Spray	MD	360300	5360100	ZWSS12	3.90	0.49	543.50			2.469	0.119	0.164	0.025	22.504	4.214	0.277	27.400	57.172								10.7		Parr, 1997	
31/03/1997	Old Spray adit	MD	360300	5360100	recon36	5.23									0.365	2.186											16.2		Parr, 1997	
21/06/2000	Old Tailings Dam North	MD	352300	5406150	OTDN	3.66	0.36		27.67	107.50		0.001	0.001	0.189	1.995	0.105	0.001	0.002	2.294	0.020	0.000	0.000	0.000	0.190	2.750	0.110	19.5		DELM, 2000	
19/06/1997	Oonah Lower (pond)	MD	360566	5362120	ZWSS13	3.19	1.33	613.75			2.226	0.002	0.018	0.078	3.798	2.992	0.418	5.785	15.317								12.6		Parr, 1997	
17/06/1995	Oonah mine	MD	359921	5362539	Oonah1	3.30	0.77							0.300	21.200		0.500	22.000												Ladiges, 1995
17/06/1995	Oonah mine	MD	359573	5362516	Oonah2	2.00	0.82								3.000		0.670													Ladiges, 1995
19/02/1999	Oonah south workings	MD	360366	5362161	ZH009	3.30	0.89	1.00	158.00	200.00	2.790	0.001	0.020	0.234	9.020	4.330	0.430	5.930	22.755								11.1		Earth Systems	
19/06/1997	Oonah Upper (NE ZQ#5)	MD	360609	5362370	ZWSS14	3.59	1.47	698.25			2.589	0.023	0.025	0.128	38.538	4.138	0.482	7.410	53.333								11.3		Parr, 1997	
18/05/1999	Oonah Creek > wetland	MD	360617	5362303	ZH012	3.31	0.63	1.00	112.00	420.00	3.700	0.001	0.053	0.293	8.180	2.870	0.600	10.900	26.597								10.4		Earth Systems	
03/01/1998	Outwash Lagoon	MD	575781	5465536	M1	3.70	0.86			58.00	13.300		0.001	0.009	160.000	0.060	0.012	0.041	173.423									980091		SEMF, 1998
18/05/1999	Parting Creek east	ND	363127	5362409	ZH015	5.71	0.11																							Earth Systems
18/05/1999	Parting Creek west	ND	363010	5362293	ZH014	4.70	0.10																							Earth Systems
10/04/2000	Pass River	ND	235084	5580442	Pass	7.33	1.86	51.00	307.00	14.00	0.192	0.005	0.001	0.001	0.071	0.005	0.005	0.006	0.286	0.182	0.005	0.001	0.002	0.327	0.457	0.006	0.009	12.7	4994	Gurung, 2001
20/07/1999	Pass River	ND	234200	5589600	3621	7.30	2.08																					10.2		Hydrol
19/01/2000	Patersonia Rt @ Patersonia Rd	ND	525400	5420400	NE 8	7.00	0.08				0.077	0.005	0.001	0.001			0.001	0.005	0.090								20.1		Hydrol	
19/01/2000	Patersonia Rt @ Targa Hill	ND	527700	5426500	NE 11	7.10	0.06				0.050	0.005	0.001	0.001			0.001	0.003	0.061								15.7		Hydrol	
10/12/2000	Patriarch River	ND	598090	5575623	Patriarch-2	7.43	1.75	224.00	11.00	36.00	0.088	0.196	0.005	0.005	0.001	0.001	0.001	0.002	0.299	0.129	0.935	0.005	0.058	0.005	0.005	0.005	0.008	17.8	14772	Gurung, 2001
10/12/2000	Patriarch River	ND	593639	5573677	Patriarch-1	7.56	3.59	128.00	15.00	100.00	0.078	0.294	0.005	0.005	0.001	0.001	0.001	0.001	0.386	0.160	1.050	0.005	0.054	0.005	0.005	0.005	0.009	16.8	14771	Gurung, 2001
10/12/2000	Patriarch River	ND	600126	5576440	Patriarch R	7.72	20.60	215.00	15.00	900.00	0.020	0.152	0.005	0.005	0.001	0.001	0.001	0.001	0.186	0.044	0.341	0.005	0.054	0.005	0.005	0.002	0.006	20.0	14773	Gurung, 2001
07/12/2000	Pats River @ airport	ND	585766	5561328	Pats-U5	7.41	5.55	14.00	26.00	36.00	0.410	1.060	0.005	0.005	0.001	0.001	0.001	0.001	1.484	0.757	1.330	0.028	0.185	0.005	0.005	0.010	0.007	17.1	14630	Gurung, 2001
07/12/2000	Pats River u/s	ND	587103	5563316	South Pats	6.40	1.50	37.00	8.00	16.00	0.666	3.030	0.005	0.005	0.001	0.001	0.004	0.001	3.713	0.698	2.400	0.010	0.129	0.006	0.005	0.694	0.008	14.8	14631	Gurung, 2001
19/06/1997	Peasoup Creek	MD	360159	5362012	ZWSS15	3.44	0.29	160.00			1.293	0.003	0.006	0.058	11.011	1.279	0.081	1.520	15.251								11.4		Parr, 1997	
13/03/1995	Pearl Creek @ Zeehan Hwy	ND	379142	5342737	A09	5.50	0.07			0.20			0.001	0.061			0.001	0.020	0.083								12.5		Krasnicki	
03/02/2000	Pearl Creek @ Zeehan Hwy	ND	379129	5342734	PEARLCK1	7.54	0.06	3.00	4.00	1.10	0.043	0.005	0.001	0.005	0.123	0.005	0.005	0.003	0.190	0.087	0.005	0.001	0.006	0.363	0.008	0.005	0.004	18.0	1495	Gurung, 2001
06/04/2000	Pearshape Quarry	MD	238473	5560468	Pear-1	2.64	7.61	8100.00	1.00	2190.00	132.000	0.663	0.017	2.140	303.000	26.200	0.005	37.600	501.625	131.000	0.679	0.017	2.150	300.000	26.400	0.005	37.200	14.7	4981	Gurung, 2001
06/04/2000	Pearshape Quarry	MD	238346	5560370	Pear-3	2.42	7.94	4900.00	1.00	1310.00	106.000	0.129	0.004	1.060	115.000	5.100	0.005	7.170	234.468	105.000	0.134	0.005	1.060	116.000						

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
17/05/2000	Penguin Creek @ Browns Lane	ND	419874	5446467	FM	5.66	0.31																				11.0		Gurung, 2001	
11/04/2000	Pennys Lagoon	ND	249183	5606036	FM	6.66	1.21																				14.0		Gurung, 2001	
14/01/1998	Pickets Plain Creek	MD	578181	5458283	E7	2.80	0.59			249.00	21.100		0.001	0.006	46.700	0.069	0.007	0.053	67.936									980115		SEM, 1998
02/09/1998	Pieman < Chamberlain Creek	MD	376675	5372680	Dell_15	5.90	0.04			3.40	0.330	0.002	0.001	0.001	0.340	0.050	0.010	0.100	0.834									9.6		Dellar, 1998
11/03/1991	Pieman < Donaldson River	ND	335609	5390653	PieDonalds	6.90	6.63	22.60		297.00			0.001	0.007	0.060	0.100	0.002	0.070	0.240									15.7		Koehnken
20/03/2000	Pieman < Huskisson	ND	368483	5374333	PBH	5.66	0.06			15.49	0.167	0.002		0.024	0.351	0.168		0.126	0.838					0.690	0.180		0.150	11.4		Renison
23/10/1991	Pieman < Huskisson	ND	367378	5374458	PieHusk	5.70	0.08	4.80		4.00			0.001	0.001	0.220	0.030	0.001	0.170	0.423									9.8		Koehnken
16/02/1992	Pieman < Stitt River	ND	376550	5372678	PieStitt	5.70	0.06	2.40		2.00			0.001	0.002	0.120	0.050	0.002	0.160	0.335									15.3		Koehnken
13/03/2000	Pieman < Stitt River	MD	376784	5372778	PBS5	5.97	0.04			5.30	0.280	0.001	0.005	0.007	0.299	0.059	0.009	0.058	0.718											Pasminco EMP
12/02/1992	Pieman < Wilson	ND	363896	5375142	PieWil	5.75	0.06	3.60		7.00			0.001	0.002	0.160	0.030	0.001	0.100	0.294									19.1		Koehnken
02/09/1998	Pieman > Chamberlain Creek	MD	376794	5372866	Dell_14	5.96	0.05			2.90	0.200	0.003	0.001	0.001	0.350	0.050	0.011	0.110	0.726									9.3		Dellar, 1998
19/03/2000	Pieman > Ring River	ND	370879	5374318	PAR	5.65	0.04			10.06	0.196	0.002		0.031	0.332	0.158		0.095	0.814					0.530	0.160		0.140	11.9		Renison
28/10/1991	Pieman > Ring River	ND	371213	5373947	PUSRR	4.70							0.005	0.005	0.170	0.016	0.005	0.005	0.206											Pasminco EMP
21/01/1992	Pieman > Whyte River	ND	341678	5386639	Pie>Whyte	5.72	1.29	4.70		69.00			0.001	0.003	0.150	0.050	0.004	0.260	0.468									15.2		Koehnken
19/03/2000	Pieman 100 m < discharge pit	MD	376565	5375578	PBS3	5.99	0.04			9.64	0.250	0.001	0.001	0.003	0.105	0.025	0.010	0.016	0.411											Pasminco EMP
19/03/2000	Pieman 1 km > Bobadil	MD	376031	5377212	PBS1	5.95	0.04			5.18	0.264	0.001	0.002	0.007	0.137	0.027	0.031	0.026	0.495											Pasminco EMP
13/03/2000	Pieman-Bobadil mix. zone	MD	376456	5375742	PBS2	5.90	0.07			18.77	0.273	0.001	0.001	0.010	0.111	0.040	0.076	0.020	0.532											Pasminco EMP
10/04/1995	Piney Creek @ Heemskirk Rd	ND	355149	5367337	A23	5.30	0.07			2.00			0.001	0.001			0.002	0.020	0.024									9.2		Krasnicki
16/01/1992	Piney Creek	MD	355131	5367320	Piney Cr	5.06	0.06			2.00			0.001	0.002	0.290	0.030	0.003	0.410	0.736									14.2		Koehnken
24/03/2000	Pioneer Creek	ND	579080	5451871	Pioneer Ck	6.44	0.14	8.00	6.00	47.00	0.063	0.005	0.001	0.001	0.431	0.012	0.005	0.051	0.199	0.334	0.005	0.001	0.002	3.250	0.019	0.005	0.002	12.9	4325	Gurung, 2001
14/03/2000	Pioneer Lake	MD	578130	5452426	PioneerL	7.02	0.14	10.00	3.00	4.10	0.036	0.005	0.001	0.001	0.462	0.011	0.005	0.004	0.525	0.018	0.005	0.001	0.001	0.465	0.014	0.005	0.010	12.6	3909	Gurung, 2001
24/11/2000	Pipers River	ND	511862	5437538	Piper-1	6.40	0.44	83.00	41.00	32.00	0.309	0.005	0.001	0.020	3.290	0.309	0.005	0.012	3.951	0.665	0.005	0.001	0.021	5.420	3.160	0.008	0.015	11.9	14083	Gurung, 2001
19/01/1998	Pipers @ Bangor Road (lower)	ND	510500	5437850	3447	6.54	0.20			4.70	0.270		0.001	0.001	1.000	0.090	0.001	0.002	1.365									18.7		Hydrol
20/01/1998	Pipers @ Baxter Road	ND	508075	5448800	3442	6.69	0.24																					18.1		Hydrol
20/01/1998	Pipers @ Bridport Road	ND	508550	5451300	3441	6.58	0.29																					16.5		Hydrol
19/01/1998	Pipers @ Colgraves Road	ND	510200	5441150	19208	6.60	0.21			8.10	0.210		0.001	0.004	0.820	0.040	0.001	0.006	1.082									20.1		Hydrol
19/01/1998	Pipers @ Karoola (Lalla Road)	ND	513400	5432125	3451	7.15	0.19			2.90	0.220		0.001	0.001	0.610	0.030	0.001	0.001	0.864									18.6		Hydrol
19/01/1998	Pipers @ Lewis Road	ND	508975	5443675	3445	7.02	0.21																					20.0		Hydrol
20/01/1998	Pipers @ Security Road	ND	507975	5447200	3443	7.33	0.22																					18.6		Hydrol
19/01/1998	Pipers < Yarrow Creek	ND	509300	5453900	19204	6.89	0.30			7.90	0.240		0.001	0.001	0.630	0.120	0.001	0.002	0.995									19.2		Hydrol
24/11/2000	Pipers Brook	ND	514553	5451524	PB-1	7.00	0.28	15.00	3.00	2.70	0.152	0.005	0.001	0.001	0.990	0.006	0.005	0.003	1.163	0.316	0.005	0.001	0.001	1.740	0.027	0.005	0.001	14.9	14081	Gurung, 2001
11/12/2000	Pond Flow @ MTTM	MD	575098	5585178	MT Pond-3	3.76	0.19	1.00	18.00	44.00	1.150	0.005	0.001	0.001	0.106	0.011	0.005	0.004	1.283	1.190	0.005	0.001	0.001	0.152	0.011	0.005	0.003	27.0	14786	Gurung, 2001
11/12/2000	Pond Flow @ MTTM	MD	575155	5585119	MT Pond-4	4.43	0.48	1.00	20.00	25.00	1.080	0.005	0.001	0.001	2.170	0.007	0.005	0.002	3.271	1.430	0.005	0.001	0.001	3.130	0.007	0.005	0.006	26.0	14787	Gurung, 2001
11/12/2000	Pond Flow @ MTTM	MD	575122	5585170	MT Pond-1	4.10	1.38	1.00	24.00	120.00	2.540	0.005	0.001	0.001	0.107	0.032	0.005	0.010	2.701	2.510	0.005	0.001	0.001	0.151	0.032	0.005	0.011	23.0	14784	Gurung, 2001
11/12/2000	Pond Flow @ MTTM	MD	575121	5585162	MT Pond-2	3.42	1.87	1.00	38.00	140.00	2.110	0.005	0.001	0.001	1.000	0.046	0.005	0.006	3.174	2.060	0.005	0.001	0.001	1.160	0.044	0.005	0.006	24.0	14785	Gurung, 2001
17/06/1995	Ponded water < Stormdowne face	MD	359958	5361567	QH1	2.70	0.80								36.900		0.750													Ladiges, 1995
17/02/2000	Ponded water < Waratah River	MD	376252	5413498	FM	5.11	1.20																					14.9		Gurung, 2001
08/04/2000	Porky Creek	ND	234944	5581942	FM	6.75	1.19																					14.4		Gurung, 2001
08/04/2000	Porky Creek	ND	236528	5583461	FM	6.68	1.29																					11.9		Gurung, 2001
08/04/2000	Porky Creek	ND	234814	5581328	FM	6.68	1.29																					14.8		Gurung, 2001
10/04/2000	Porky Creek	ND	232297	5582951	PorkyCk	6.65	1.79	46.00	350.00	17.00	0.228	0.005	0.001	0.001	0.096	0.005	0.005	0.006	0.347	0.156	0.005	0.001	0.008	0.200	0.219	0.007	0.016	12.6	4990	Gurung, 2001
07/12/2000	Potboil Creek @ Reedy Lagoon Road	ND	604263	5552485	Potboil Ck	7.72	2.95	303.00	11.00	81.00	0.058	0.862	0.005	0.005	0.001	0.001	0.001	0.001	0.934	0.057	1.210	0.005	0.194	0.005	0.009	0.004	0.010	23.0	14757	Gurung, 2001
02/02/2000	Princess Creek > Queen River	ND	377561	5334985	UNCK3	6.34	0.11	30.00	4.00	2.40	0.035	0.005	0.001	0.001	0.090	0.005	0.005	0.001	0.143	0.201	0.005	0.001	0.006	0.266	0.026	0.005	0.005	14.6	1406	Gurung, 2001
19/06/1997	Pyramid Creek < Oceana	ND	362622	5357173	recon26	7.17							0.006		0.463	0.645	0.916	0.119	2.149									12.7		Parr, 1997
19/06/1997	Pyramid Creek > Oceana	MD	362133	5357497	recon24	4.11							0.030		14.010	2.181	10.280	0.064	26.565									12.7		Parr, 1997
19/06/1997	Pyramid Creek @ Henty Road	ND	364086	5356552	recon28	7.30							0.007		2.255	1.846	1.657	0.137	5.902									17.2		Parr, 1997
05/07/1993	Quarry drain > Seal River	MD	238347	5559713	SIN2	2.75	2.95		419.13	1756.00				0.710	5.800	9.400	0.020	9.100	25.030									9.6		Innes, 1993
16/01/1992	Que River	MD	390035	5396200	Que R	5.55	0.99	1.20		492.00			0.026	0.196	2.080	1.530	0.056	19.200	23.088									13.7		Koehnken
12/03/1993	Que River	MD	391462	5395362	Q4	2.92	1.67			810.00		0.006	0.223	0.880	27.560	10.600	1.170	0.110	40.549									13.0		WMRL EMP
20/03/2000	Que River @ Murchison Hwy	MD	390070	5396190	Q6	5.33	1.43	6.50																						

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source		
18/02/2000	Queen R < Conglomerate Ck	MD	380535	5340517	QRW-5	2.96	2.78	1.00	800.00	5200.00	29.300	0.005	0.005	17.600	42.200	24.800	0.020	3.160	117.090	30.800	0.005	0.004	18.600	86.800	26.100	0.022	3.310	21.2	2470	Gurung, 2001		
18/02/2000	Queen R > Conglomerate Ck	MD	380612	5340627	QRW-9	3.00	2.45	1.00	772.00	3300.00	25.000	0.005	0.004	15.100	32.400	21.100	0.018	2.730	96.357	25.000	0.005	0.004	15.200	71.800	21.200	0.019	2.710	23.9	2472	Gurung, 2001		
02/02/2000	Queen River > Lynchford	MD	378401	5336480	QR3	2.93	1.88	1.00	376.00	3100.00	15.000	0.005	0.003	7.600	8.230	14.200	0.015	1.500	46.553	14.800	0.005	0.002	7.530	33.700	14.100	0.012	1.490	15.3	1409	Gurung, 2001		
26/05/1993	Queen River East, headwater	MD	381770	5345727	Med96_4	3.70			25.00	28.00				1.100	1.700															Miedecke		
01/02/2000	Queen River @ Queenstown	MD	379837	5339625	QR1	2.91	2.53	1.00	654.00	3900.00	26.100	0.005	0.004	14.600	45.100	26.800	0.020	3.110	115.739	27.800	0.005	0.003	15.500	72.800	28.600	0.019	3.200	16.5	1422	Gurung, 2001		
19/03/2000	Queen River > Haulage Creek	ND	380731	5341238	WLT	5.08			247.83	1.100				0.391	3.746	0.395	0.010	0.174	5.816	2.330			0.460	5.130	0.400		0.180			CMT		
23/06/2000	Queenhill 4 adit	MD	360423	5361744	Qhill-4	2.67	1.39	1.00	512.00	610.00	9.530	0.031	0.066	0.291	114.000	10.800	1.150	15.500	151.368	11.000	0.413	0.073	0.313	149.000	11.200	1.300	16.400	12.1	8053	Gurung, 2001		
03/02/2000	Queenhill 4 adit	MD	360427	5361742	Gwqh1	3.09	1.32	1.00	430.00	1900.00	3.130	0.005	0.013	0.041	20.500	3.960	0.184	6.600	34.433	3.040	0.122	0.013	0.042	86.600	6.020	0.179	9.840	18.2	1485	Gurung, 2001		
19/01/2000	River O'Plain Creek @ Blessington Road	ND	541800	5406600	NE 23	7.00	0.07				0.073	0.005	0.001	0.001			0.001	0.002	0.083											Hydrol		
07/12/2000	Ranga	ND	593757	5553062	WM Ck	6.30	1.16	207.00	9.00	260.00	0.010	0.042	0.005	0.007	0.001	0.001	0.001	0.001	0.068	0.049	0.765	0.005	0.206	0.005	0.005	0.001	0.004	17.3	14629	Gurung, 2000		
23/03/2000	Ransom Creek	ND	584473	5437801	Ransom-1	6.16	0.04	2.00	3.00	0.85	0.096	0.005	0.001	0.001	0.074	0.005	0.005	0.003	0.190	0.132	0.005	0.001	0.001	0.171	0.010	0.005	0.005	11.2	4310	Gurung, 2001		
23/03/2000	Ransom Creek	ND	588218	5434702	Ransom-2	6.23	0.05	2.00	2.00	1.30	0.077	0.005	0.001	0.001	0.047	0.005	0.005	0.003	0.144	0.111	0.005	0.001	0.001	0.109	0.006	0.005	0.006	11.7	4311	Gurung, 2001		
23/03/2000	Ransom Creek < Groom River	ND	590724	5432145	Ransom-3	6.26	0.06	3.00	3.00	1.50	0.089	0.005	0.001	0.001	0.165	0.005	0.005	0.004	0.275	0.173	0.005	0.001	0.001	0.511	0.027	0.005	0.008	16.1	4312	Gurung, 2001		
16/03/1996	Razorback MD	MD	369379	5363386	Law_3	6.20	0.88	34.30		74.50	0.164			0.001	7.355	1.608	0.059	1.203	10.390											Lawrence, 1996		
16/03/1996	Razorback TD	MD	369677	5363426	Law_4	6.80	0.42	18.60		16.31	0.000			0.001	0.305	0.926	0.024	0.178	1.434											Lawrence, 1996		
06/12/2000	Red Creek @ Coast Road	ND	599695	5549651	Red Ck	6.31	2.65	189.00	9.00	22.00	0.076	0.445	0.005	0.005	0.001	0.001	0.001	0.001	0.535	0.082	0.653	0.005	0.272	0.005	0.005	0.005	0.006	19.3	14627	Gurung, 2001		
07/12/2000	Red Creek@ Lady Barron Road	ND	599412	5552715	Red Ck-2	7.11	4.75	528.00	17.00	150.00	0.056	0.115	0.007	0.012	0.001	0.001	0.001	0.001	0.194	0.062	1.630	0.005	3.120	0.005	0.005	0.005	0.012	18.0	14756	Gurung, 2001		
05/04/2000	Reekara Quarry	ND	234921	5593060	GWB-1	6.50	3.94	2200.00	139.00	33.00	0.010	0.005	0.001	0.001	0.050	0.953	0.041	0.152	1.213	7.390	0.028	0.001	0.009	27.700	1.100	0.060	0.283	12.9	4973	Gurung, 2000		
05/04/2000	Reekara Quarry	MD	234839	5593186	Rekara	3.12	11.45	920.00	1.00	209.00	21.400	0.005	0.004	0.079	6.660	2.150	0.031	2.230	32.559	21.500	0.006	0.004	0.074	6.850	2.140	0.027	2.240	12.1	4974	Gurung, 2001		
12/04/2001	Reemans Road drain > Duck R	ND	337800	5476124	FM	6.79	0.98																					18.0		Gurung, 2001		
13/01/1998	Remnant Lake	MD	578341	5457548	S6	5.10	0.02			5.20	0.139			0.001	0.159	0.014	0.001	0.004	0.319										980102	SEMF, 1998		
01/02/2000	Reservoir Ck @ Queenstown	ND	381267	5339529	LH01	6.75	0.10	29.00	9.00	9.50	0.010	0.005	0.001	0.001	0.020	0.005	0.005	0.001	0.048	0.239	0.009	0.001	0.004	110.000	0.293	0.005	0.217	16.6	1421	Gurung, 2001		
21/01/2000	Richardsons Ck @ Mangana	ND	375684	5393202	FM	6.86	0.14																					17.0		Gurung, 2001		
24/03/1997	Ring < Bakers	MD	375325	5367650	AT05	4.30	0.14							0.012	0.230			0.138	5.350	5.730									11.1		Krasnicki	
02/03/2000	Ring > Bakers	MD	375429	5367759	RINGR-4	4.19	0.30	1.00	59.00	180.00	1.880	0.005	0.054	0.287	0.199	6.010	0.182	30.800	39.417	1.920	0.007	0.056	0.371	1.140	6.280	0.205	32.700	15.9	3537	Gurung, 2001		
18/08/1999	Ring @ Murchison Highway	MD	371184	5371336	RRMHY	6.33	0.08	0.50				0.500	0.011	0.060	0.378	0.872	0.089	4.078	5.988												Pasminco	
12/03/1996	Ring @ Murchison Highway	MD	371192	5371321	AMon4	5.30	0.13			36.00								7.800												13.0		Krasnicki
19/03/2000	Ring @ railway	MD	379682	5373853	RAR	5.43	0.08			28.82	0.229	0.002		0.031	0.481	0.589		0.839	2.171					0.940	0.600		0.910	12.3		Renison		
19/03/2000	Ring @ Mt Read Road	MD	377602	5366627	RR1	4.80	0.05			7.00	0.310	0.050	0.525	0.148	0.209	0.373	0.134	0.720	2.469											8.3		Pasminco
02/03/2000	Ring < Bakers	MD	375387	5367748	RINGR-6	4.16	0.34	1.00	66.00	200.00	1.740	0.005	0.063	0.345	0.122	8.740	0.696	34.500	46.211	1.870	0.006	0.067	0.472	1.120	9.150	0.786	38.100	15.9	3538	Gurung, 2001		
31/08/1998	Ring < Bakers	MD	375360	5367680	K	4.05	0.66			102.00	1.230	0.007	0.100	0.180	1.100	2.670	0.630	9.880	15.797										10.2		Smith, 1998	
07/06/2000	Ring > Dalcoath	MD	371278	5370710	RR^Dalcoath	5.45	0.08				0.140	1.180	0.010	0.040	0.145		0.015	4.540	6.070										4.4		Pasminco	
19/03/2000	Ring > Dalcoath	ND	371287	5370877	RAD	6.06	0.09			28.52	0.133	0.006		0.061	0.238	0.807		3.193	4.438					0.940	0.890		3.510	9.7		Renison		
30/06/1998	Ring P.A. adit	MD	376320	5368000	Dell_6	3.69	0.30			840.00	4.840	0.003	0.011	0.920	6.870	7.990	0.320	14.600	35.554										10.8		Dellar, 1998	
19/02/1998	Ring River	MD	376548	5367975	Dell_1	3.71	0.06			90.50	10.200	1.910	0.006	0.244	31.390	5.380	0.177	8.986	58.293										10.2		Dellar, 1998	
30/06/1998	Ring River	MD	375482	5367817	Dell_2	3.90	0.17			217.00	2.080	0.022	0.042	0.320	5.210	3.490	0.140	27.500	38.804										4.5		Dellar, 1998	
01/03/2000	Ring River @ bridge	MD	376363	5368231	FM	4.23	0.66																						19.6		Gurung, 2001	
19/05/1991	Ring River @ railway bridge	MD	370578	5373865	RR	4.28				22.24			0.004	0.023	0.608	0.680	0.104	2.449	3.868												Pasminco EMP	
02/03/2000	Ring R > East Hercules mine	MD	377191	5366617	FM	5.41	0.34																						13.1		Gurung, 2001	
06/01/1992	Ring River lower	MD	370523	5373978	Ring-L	5.20	0.09	0.50		31.00			0.004	0.034	0.320	1.020	0.022	3.900	5.300										12.9		Koehnken	
04/02/2000	Ring River tributary	MD	376307	5368392	WRCK5	4.17	0.28	1.00	58.00	120.00	0.918	0.005	0.030	0.208	0.020	2.210	0.047	15.400	18.838	0.959	0.005	0.029	0.210	0.625	2.230	0.055	15.400	18.1	1501	Gurung, 2001		
04/02/2000	Ring River Williamsford Road	MD	371218	5371289	Ring1	6.72	0.13	4.00	11.00	2.50	0.022	0.005	0.005	0.007	0.067	0.657	0.006	3.380	4.149	0.087	0.005	0.006	0.020	0.173	0.678	0.023	3.520	18.0	1498	Gurung, 2001		
22/03/2000	Ringarooma @ Branxholm	ND	561737	5442157	RRooma-3	6.15	0.05	7.00	3.00	5.00	0.046	0.005	0.001	0.002	0.099	0.005	0.005	0.001	0.164	0.101	0.005	0.001	0.004	0.237	0.013	0.005	0.001	16.1	4302	Gurung, 2001		
16/03/2000	Ringarooma @ bridge	ND	585447	5465741	Rrooma-1	5.65	0.08	8.00	3.00	2.90	0.010	0.005	0.001	0.001	0.612	0.006	0.005	0.001	0.641	0.109	0.005	0.001	0.002	1.250	0.067	0.005	0.003	18.2	3937	Gurung, 2001		
22/01/1998	Ringarooma @ Derby	ND	567575</																													

Tasmanian Geological Survey Record 2001/05 63

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
12/04/2000	Sea Elephant River	ND	240841	5581029	FM	7.21	0.47																				13.8		Gurung, 2001	
15/04/2000	Sea Elephant River	ND	252269	5588146	FM	6.55	0.49																				11.2		Gurung, 2001	
23/07/1999	Sea Elephant River	ND	241400	5573900	3626	6.73	0.52																				10.3		Hydrol	
23/07/1999	Sea Elephant River	ND	240800	5581100	3624	6.98	0.59																				9.9		Hydrol	
05/07/1993	Seal @ Colliers Swamp	MD	240851	5556868	SIN6	6.10	0.74		24.26	187.00				0.010	0.600	0.030	0.010	0.090	0.740								9.7		Innes, 1993	
05/07/1993	Seal < quarry drain	MD	238303	5559582	SIN4	6.10	0.47		24.26	105.00				0.010	0.700	0.090		0.130	0.930								8.6		Innes, 1993	
05/07/1993	Seal > quarry drain	ND	238500	5559520	SIN3	6.60	0.44		17.96	19.00				0.010	1.500	0.010		0.040	1.560								8.6		Innes, 1993	
05/07/1993	Seal 500 m < quarry drain	MD	238326	5559197	SIN5	5.87	0.48		28.06	108.00				0.020	0.900	0.100		0.090	1.110								8.6		Innes, 1993	
21/07/1999	Seal River	ND	240700	5562700	3628	6.90	0.62																				9.6		Hydrol	
14/04/2000	Seal River	ND	241073	5557012	FM	5.89	0.65																				13.7		Gurung, 2001	
22/07/1999	Seal River	ND	240650	5556800	3631	6.20	0.73			46.00					1.700	0.070											10.4		Hydrol	
14/04/2000	Seal River @ Millers Road	ND	240082	5561720	FM	6.51	0.68																				13.4		Gurung, 2001	
21/06/2000	Seal R @ Seal River Road bridge	ND	240816	5556802	DK4	6.85	2.25																				14.3		Krushka	
19/01/1998	Second River @ Bangor Road	ND	511400	5436675	3449	6.12	0.17			4.80	0.050		0.001	0.001	1.000	0.160	0.001	0.003	1.216								17.8		Hydrol	
09/05/2000	Seepage inflow	MD	324004	5429763	FM	3.76	0.23																				7.4		Gurung, 2001	
16/03/2000	Seepage off Picketts Plain	MD	578110	5458252	Seepage	2.86	1.09	1.00	460.00	1700.00	31.200	0.005	0.001	0.001	41.300	0.074	0.006	0.045	72.632	31.400	0.005	0.001	0.001	122.000	0.073	0.005	0.054	17.1	3928	Gurung, 2001
19/06/1997	Seepage @ Austral Smelter	MD	362881	5358083	recon23	6.92							0.042		5.138	1.175	6.682	0.811	13.848								11.3		Parr, 1997	
19/01/2000	Seven Mile Ck @ Tasman Hwy	ND	531400	5426700	NE 15	6.70	0.06				0.052	0.005	0.001	0.001			0.001	0.015	0.075								15.7		Hydrol	
24/03/2000	Shallamar Ck @ Monarch mine	MD	576593	5464752	Shallamar-4	6.10	0.27	26.00	5.00	3.70	0.040	0.005	0.001	0.001	0.546	0.005	0.005	0.001	0.604	1.010	0.005	0.001	0.001	6.090	0.042	0.005	0.005	14.0	4321	Gurung, 2001
24/03/2000	Shallamar Ck > Vicarys Creek	MD	575241	5465942	Shallamar-5	6.18	0.33	21.00	10.00	4.70	0.010	0.005	0.001	0.001	0.400	0.024	0.005	0.001	0.447	0.233	0.007	0.001	0.001	13.200	0.063	0.005	0.003	12.1	4323	Gurung, 2001
24/03/2000	Shallamar Creek ponded	MD	576304	5464849	Shallamar-3	5.85	0.26	21.00	8.00	4.20	0.047	0.007	0.001	0.001	0.383	0.005	0.005	0.001	0.450	1.540	0.009	0.001	0.001	6.600	0.029	0.005	0.004	14.2	4320	Gurung, 2001
24/03/2000	Shallamar Creek tributary	ND	576672	5464956	Shallamar-2	6.25	0.23	15.00	5.00	5.00	0.010	0.005	0.001	0.001	0.020	0.005	0.005	0.001	0.048	0.737	0.005	0.001	0.001	2.750	0.032	0.005	0.003	14.0	4319	Gurung, 2001
19/01/2000	Shallamar Creek tributary	ND	576024	5464968	FM	6.78	0.28																				24.0		Gurung, 2001	
24/03/2000	Shallamar Creek u/s Shallamar Flats	ND	576815	5464064	Shallamar-1	6.14	0.23	18.00	22.00	3.50	0.094	0.005	0.001	0.001	0.763	0.020	0.005	0.001	0.890	0.228	0.005	0.001	0.001	3.430	0.021	0.005	0.003	14.8	4318	Gurung, 2001
24/03/2000	Shallamar Lake @ Shallamar Flats	MD	576781	5464572	Shallamar L	6.07	0.21	5.00	7.00	7.00	0.582	0.005	0.001	0.001	0.369	0.019	0.005	0.001	0.983	1.160	0.005	0.001	0.001	0.939	0.022	0.005	0.002	13.1	4322	Gurung, 2001
14/04/2000	Shearing Shed Lagoon	ND	236680	5554389	FM	7.01	0.92																				10.3		Gurung, 2001	
27/09/2000	Side Creek > Storys Creek	MD	561004	5390041	Side Ck adit	4.00	0.14	1.00	25.00	51.00	1.710		0.094	0.165	0.111	0.403	0.005	2.650	5.138	1.630		0.090	0.170	0.690	0.330	0.010	2.370		11175	Wojtek, 2000
02/10/1997	Side Creek > Storys Creek	MD	561016	5390036	Medec_6	3.70	0.25	1.00	35.00	94.00	3.000		0.139	0.169	0.100	0.900	0.002	4.070	8.380	3.000		0.140	0.170	0.200	0.900	0.000	4.140			Miedecke, 1998
13/01/1998	Significant dam	MD	587915	5464759	S5	6.90	0.00			2.50	0.227		0.001	0.004	2.420	0.010	0.001	0.005	2.668									980101		SEMF, 1998
31/03/1997	Silver Lead @ caravan park	MD	361535	5362233	recon42	3.63									5.570	2.974											11.5		Parr, 1997	
19/06/1997	Silver Lead > ZQ4	ND	360258	5361598	ZWSS1	6.31	0.23	24.88		9.68	0.071	0.005	0.001	0.011	0.252	0.237		0.265	0.842								8.8		Parr, 1997	
17/06/1995	Silver Lead Creek	MD	359425	5361655	SLC1	4.90	0.07								3.200		0.120													Ladiges, 1995
02/03/2000	Silver Lead Creek	MD	360660	5362130	Slead_3	3.50	0.38	1.00	57.00	310.00	1.240	0.005	0.006	0.022	1.300	3.200	0.210	2.720	8.703	1.300	0.043	0.006	0.026	21.000	3.410	0.231	2.840	16.8	3539	Gurung, 2001
19/06/1995	Silver Lead Creek	MD	360258	5361598	recon9	6.65							0.002		0.320	0.165	0.039	0.005	0.531								12.3		Parr, 1997	
18/05/1999	Silver Lead Creek @ Caravan Park	MD	361581	5362186	ZH013	3.89	0.52																							Earth Systems
02/03/2000	Silver Lead Creek @ Caravan Park	MD	361549	5362186	Flo-1	3.40	0.43	1.00	54.00	320.00	1.030	0.005	0.010	0.019	1.150	5.290	0.491	4.630	12.625	1.030	0.021	0.010	0.013	11.900	5.350	0.494	4.770	16.8	3541	Gurung, 2001
17/06/1995	Silver Lead Creek @ Heemskirk Rd	MD	360249	5362085	SLC4	3.40	0.34						0.100		7.700		0.330		8.130											Ladiges, 1995
23/06/2000	Silver Lead Creek @ Trial Harbour Road	MD	360426	5361722	Slead-6	3.88	0.13	1.00	8.00	18.00	0.293	0.005	0.003	0.009	0.077	0.589	0.033	0.689	1.698	0.508	0.006	0.003	0.011	4.040	0.623	0.077	0.741	11.3	8052	Gurung, 2001
17/06/1995	Silver Lead Creek < wetland	MD	359946	5362169	SLC3	3.40	0.24						0.100		12.800		0.240		13.140											Ladiges, 1995
19/02/1999	Silver Lead Creek > Queen No.4 Shaft	ND	360327	5361676	ZH006	5.76	0.15	9.00	4.00	32.00	0.050	0.001	0.001	0.001	0.253	0.595	0.001	0.166	1.068								12.6		Earth Systems	
25/06/2000	Silver Lead Creek downstream Heemskirk Rd	MD	361051	5362131	Slead25	2.88	0.38	1.00	49.00	73.00	1.590	0.005	0.010	0.064	1.530	2.280	0.270	2.960	8.709	1.690	0.032	0.011	0.068	11.500	2.410	0.288	3.130	11.4	8059	Gurung, 2001
02/03/2000	Silver Lead Creek downstream Heemskirk Rd	MD	361013	5362073	Slead_5	3.43	0.41	1.00	53.00	580.00	1.070	0.005	0.007	0.016	1.070	5.100	0.300	3.850	11.418	1.070	0.031	0.007	0.034	13.500	5.040	0.289	3.730	16.9	3540	Gurung, 2001
03/02/2000	Silver Lead Creek tributary	ND	360033	5361685	Slead_1	6.14	0.24	1.00	33.00	170.00	0.299	0.005	0.002	0.005	0.028	1.240	0.012	1.130	2.721	0.338	0.015	0.002	0.004	9.660	1.260	0.022	1.110	17.0	1490	Gurung, 2001
19/06/1995	Silver Lead Creek tributary	MD	361072	5362258	recon7	3.57							0.007		1.663	2.328	2.080	0.149	6.227								14.8		Parr, 1997	
19/06/1995	Silver Lead Creek tributary	ND	360068	5361691	recon8	6.91							0.006		1.212	1.172	0.969	0.045	3.404								15.3		Parr, 1997	
23/06/2000	Silver Lead Creek upstream Queen Hill 4	ND	360381	5361704	Slead-8	5.88	0.10	4.00	2.00	10.00	0.106	0.005	0.001	0.001	0.214	0.371	0.013	0.310	1.021	0.173	0.005	0.001	0.002	0.553	0.413	0.031	0.347	9.5	8054	Gurung, 2001
18/03/1997	Silver Lead Creek @ Trial Harbour Road	MD	360768	5362132	AT07	3.30	0.42						0.013	0.040			0.524	5.310	5.887								16.4		Krasnicki	
17/06/1995	Silver Lead Creek @ TH Road	MD	359592	5361721	SLC2	4.40	0.17								10.500		0.100													Ladiges, 1995
19/06/1995	Silver Lead Creek @ TH Road	MD	360554	5362015	recon5	3.45																					16.3		Parr, 1997	
19/06/1995	Silver Lead @ wetland	MD	360782	5362142	recon6	3.66							0.009		1.875	2.163	3.343	0.261	7.651								20.7		Parr, 1997	

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
01/04/1997	Silver Lead < Pea Soup	MD	360554	5362015	recon41	4.11																					14.4		Parr, 1997	
19/06/1997	Silver Lead Creek	MD	360230	5362143	ZWSS16	3.61	0.82	280.25			1.106	0.003	0.008	0.048	7.130	1.975	0.254	2.791	13.315								10.4		Parr, 1997	
13/01/1998	Small sediment retention dam	MD	587385	5464866	S1	6.00	0.02			4.50	2.090		0.001	0.001	0.623	0.011	0.001	0.003	2.730									980097	SEM, 1998	
19/06/1997	Smelter seepage	MD	362730	5358116	ZWSS17	5.43	1.34	1339.50		4.88	3.690	1.526	0.161	2.076	55.244	24.954	0.607	32.876	121.134								13.4		Parr, 1997	
15/03/1996	South Comet Creek < South Comet mine	MD	370805	5361452	Law_12	6.00	1.24	7.90		176.50	0.000			0.001	0.413	15.001	0.057	13.266	28.738											Lawrence, 1996
15/03/1996	South Comet Creek > South Comet mine	ND	371137	5361562	Law_15	6.60	0.24	9.20		4.19	0.000			0.001	0.105	0.001	0.001	0.048	0.156											Lawrence, 1996
15/03/1996	South Comet TD	MD	370944	5361439	Law_13	6.00	4.81	19.50		954.60	0.000			0.001	1.121	0.873	0.071	75.956	78.022											Lawrence, 1996
14/03/2000	South Endurance flat	MD	578764	5458550	Erunoff1	2.92	0.91	1.00	231.00	720.00	14.500	0.005	0.001	0.004	31.500	0.060	0.005	0.055	46.130	14.600	0.005	0.001	0.001	32.700	0.062	0.005	0.058	14.1	3910	Gurung, 2001
14/03/2000	South Endurance flat	MD	578775	5458615	Erunoff2	2.57	0.94	1.00	296.00	630.00	19.200	0.005	0.001	0.001	27.800	0.075	0.005	0.063	47.150	19.400	0.005	0.001	0.001	67.600	0.077	0.005	0.066	15.3	3911	Gurung, 2001
14/03/2000	South Endurance flat	MD	578698	5458601	Ruby1	2.87	1.21	1.00	520.00	2300.00	43.600	0.005	0.001	0.013	42.500	0.150	0.005	0.104	86.378	44.200	0.005	0.001	0.001	100.000	0.152	0.005	0.112	14.1	3912	Gurung, 2001
14/03/2000	South Endurance flat	MD	578843	5458187	Ruby2	2.65	1.29	1.00	416.00	1400.00	35.600	0.005	0.001	0.001	31.800	0.130	0.005	0.116	67.658	35.300	0.005	0.001	0.001	31.600	0.129	0.005	0.095	14.6	3913	Gurung, 2001
30/03/1995	South Esk @ Avoca	ND	559750	5374300	107	7.60	0.10			2.90		0.010	0.001	0.004				0.080	0.096								14.1		Hydrol	
30/03/1995	South Esk @ Evercreech	ND	580200	5407300	3356	7.30	0.05					0.010	0.001	0.001				0.005	0.018								11.3		Hydrol	
30/03/1995	South Esk @ Fingal	ND	580200	5389550	33	7.35	0.07			1.40		0.010	0.001	0.001				0.005	0.018								13.3		Hydrol	
30/03/1995	South Esk @ Fingal bridge - Malahide	ND	579750	5390550	3358	7.30	0.07							0.001			0.001	0.005	0.018									12.9		Hydrol
30/03/1995	South Esk @ Giles Marsh	ND	582275	5396475	3357	7.30	0.06					0.010	0.001	0.001				0.005	0.018								12.6		Hydrol	
30/03/1995	South Esk @ Heffords bridge	ND	572450	5385850	3361	7.65	0.08					0.010	0.001	0.001				0.005	0.018								13.9		Hydrol	
03/10/1997	South Esk @ Lewellyn	ND	547889	5370864	Medec_26	6.40	0.08	18.00	1.00	2.70	0.200			0.001	0.100	0.100	0.001	0.035	0.441	0.400		0.000	0.010	0.300	0.100	0.000	0.030			Miedecke, 1998
30/03/1995	South Esk @ Mathinna	ND	574100	5409150	18506	7.30	0.05					0.010	0.001	0.001				0.005	0.018								10.9		Hydrol	
30/03/1995	South Esk @ Tasrail Depot	ND	579375	5389100	3359	7.40	0.07					0.010	0.001	0.001				0.005	0.018								12.8		Hydrol	
30/03/1995	South Esk @ Vinegar Hill	ND	576350	5387775	3360	7.25	0.07					0.010	0.001	0.001				0.005	0.018								13.8		Hydrol	
17/11/1998	South Esk < Storys	MD	566078	5378951	Medec_25	4.60	0.11	21.00	4.00	2.00	0.098		0.001	0.008	0.140	0.005	0.001	0.027	0.280	0.160		0.000	0.010	0.340	0.020	0.000	0.020			Miedecke, 1998
17/11/1998	South Esk > Storys	ND	566569	5379029	Medec_24	6.90	0.11	2.00	5.00	45.00	0.066		0.001	0.006	0.113	0.005	0.001	0.005	0.197	0.240		0.000	0.010	0.550	0.060	0.000	0.000			Miedecke, 1998
24/07/1997	South lense	MD	350122	5406419	SR_S14	6.46	1.35	37.00	6.00	780.00	0.051	0.001	0.001	0.639	0.028	1.160	0.001	0.187	2.068	0.130	0.000	0.000	0.800	0.450	1.260	0.000	0.200			ESR/CR 698/3
07/12/2000	South Pats River @ Memana Rd	ND	586859	5561653	Officers Ck	6.75	0.70	1.00	38.00	27.00	2.500	2.590	0.005	0.005	0.001	0.001	0.001	0.001	5.104	1.730	1.940	0.018	0.018	0.005	0.005	0.013	0.006	17.5	14632	Gurung, 2001
06/04/2000	South Pearshape Quarry	ND	238341	5560288	GWB-3	6.20	3.32	260.00	191.00	41.00	0.198	0.005	0.001	0.010	0.454	1.080	0.009	0.408	2.165	12.000	0.049	0.001	0.046	90.500	3.600	0.083	0.694	11.9	4982	Gurung, 2000
26/01/1992	Southwell River	ND	395212	5398578	Southwell-U	6.67	0.05	11.20		2.00			0.001	0.001	0.160	0.080	0.001	0.090	0.333								12.6		Koehnken	
23/02/1999	Southwell River	ND	394695	5397660	H3	6.40	0.06	6.00		1.00		0.001	0.005	0.050	0.350	0.050	0.005	0.050	0.511											WMRL EMP
12/03/2000	Southwell River < portal	ND	394400	5395418	H5	6.83	0.06	11.25		7.35		0.001	0.005	0.050	0.420	0.050	0.050	0.050	0.626											WMRL EMP
11/08/1992	Southwell R portal discharge	ND	394374	5395603	W5	7.10	0.55	39.00		180.00		0.011	0.004	0.050	0.200	0.850	0.700	0.200	2.015											WMRL EMP
19/01/2000	St Patricks @ Corkerys Road	ND	534000	5428400	NE 16	7.00	0.05				0.053	0.005	0.001	0.001			0.001	0.001	0.062								15.4		Hydrol	
19/01/2000	St Patricks @ E Diddleum Rd	ND	538900	5425800	NE 17	7.10	0.05				0.065	0.005	0.001	0.001			0.001	0.001	0.074								16.7		Hydrol	
19/01/2000	St Patricks @ Nunamara	ND	525000	5417800	NE 7	6.80	0.05				0.107	0.005	0.001	0.002			0.001	0.003	0.119								18.5		Hydrol	
19/01/2000	St Patricks @ Pecks Hill Road	ND	528700	5424300	NE 10	6.90	0.05				0.073	0.005	0.001	0.001			0.001	0.002	0.083								18.2		Hydrol	
19/01/2000	St Patricks @ Targa Hill Road	ND	530900	5426800	NE 14	6.70	0.05				0.079	0.005	0.001	0.001			0.001	0.001	0.088								18.0		Hydrol	
30/03/1995	St Pauls River > South Esk	ND	560400	5373500	18311	7.82	0.13					0.010	0.001	0.001			0.001	0.005	0.018								14.2		Hydrol	
05/02/2000	Stanley Creek @ bridge	ND	357665	5381449	Stanley-1	6.27	0.06	1.00	6.00	4.20	0.156	0.005	0.001	0.001	0.068	0.005	0.005	0.005	0.246	0.181	0.005	0.001	0.001	0.100	0.005	0.005	0.005	18.0	2458	Gurung, 2001
06/01/1992	Stanley River	MD	357646	5381329	Stanley	4.94	0.05			2.00			0.001	0.002	0.290	0.030	0.006	0.330	0.659									11.5		Koehnken
12/03/1996	Stanley River @ Pieman Road	ND	357700	5381500	A18	5.80	0.06			1.00								0.007										13.1		Krasnicki
14/01/1998	Star Hill lake	MD	588763	5464296	S12	5.10	0.01			2.60	0.093		0.001	0.001	0.288	0.012	0.001	0.002	0.398									980119	SEM, 1998	
16/03/2000	Star Hill lake	MD	587718	5465538	Shlake	5.50	0.15	12.00	68.00	0.97	0.010	0.005	0.001	0.001	0.123	0.043	0.005	0.001	0.189	12.400	0.005	0.001	0.010	118.000	0.102	0.005	0.025	16.2	3942	Gurung, 2001
16/03/2000	Star Hill pond	MD	588405	5464377	Starhill	5.71	0.08	1.00	3.00	2.30	0.010	0.005	0.001	0.001	0.020	0.018	0.005	0.004	0.064	2.830	0.005	0.001	0.002	0.359	0.024	0.005	0.005	18.5	3941	Gurung, 2001
13/01/1998	Star Hill lake 1	ND	587477	5464963	S7	5.10	0.03			5.30	0.096		0.001	0.001	0.202	0.015	0.001	0.006	0.322									980103	SEM, 1998	
13/01/1998	Star Hill lake 2	MD	587583	5465135	S8	5.00	0.04			7.10	0.959		0.001	0.004	0.376	0.028	0.003	0.041	1.412									980104	SEM, 1998	
13/01/1998	Star Hill lake 3	MD	587915	5464759	S9	4.40	0.01			8.50	0.161		0.001	0.001	0.035	0.018	0.001	0.037	0.254									980105	SEM, 1998	
03/01/1998	Start of creek	ND	576720	5464611	M5	7.20	0.00			2.30	0.672		0.001	0.004	2.030	0.013	0.002	0.031	2.753									980095	SEM, 1998	
06/03/1995	South Eldon @ Lake Burbury	ND	393300	5347900	A06	6.80	0.07			10.00			0.001	0.001			0.001	0.005	0.008								18.0		Krasnicki	
17/01/1992	Stirling River	ND	384326	5374680	Stirling	5.96	0.05	5.60		2.00			0.001	0.001	0.190	0.030	0.001	0.080	0.303									11.2		Koehnken
11/04/1995	Stitt River > Rosebery	ND	379023																											

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AIK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source	
14/05/1999	Storys Creek < Eastern Hill	MD	561078	5389622	Medec_11	5.60	0.16	1.00	10.00	63.00	0.580		0.044	0.116	0.411	0.950	0.001	2.410	4.512	1.250		0.060	0.140	5.060	0.980	0.010	2.580			Miedecke, 1998	
21/05/1999	Storys Creek < Nisbet	MD	561042	5389382	Medec_13	6.00	0.13	2.00	5.00	43.00	0.234		0.044	0.115	0.181	0.413	0.002	1.400	2.389	1.250		0.050	0.120	1.610	0.510	0.010	1.420			Miedecke, 1998	
21/05/1999	Storys Creek < PPT Dam	MD	561198	5390383	Medec_5	6.80	0.04	5.00	2.00	3.40	0.052		0.001	0.036	0.039	0.190	0.002	0.708	1.028	0.130		0.000	0.050	0.250	0.200	0.000	0.730			Miedecke, 1998	
21/05/1999	Storys Creek < pumphouse	MD	561917	5387986	Medec_14	5.40	0.13	1.00	8.00	48.00	0.161		0.036	0.079	0.061	0.370	0.003	0.966	1.676	0.650		0.060	0.190	0.880	0.440	0.000	2.040			Miedecke, 1998	
14/05/1999	Storys Creek < side	MD	561072	5389898	Medec_8	6.00	0.11	3.00	8.00	34.00	0.223		0.045	0.066	0.063	0.411	0.001	1.520	2.329	0.890		0.050	0.130	3.290	0.420	0.010	1.680			Miedecke, 1998	
17/01/1998	Storys Creek > Aberfoyle	ND	565898	5381044	Medec_23	7.50	0.18	3.00	2.00	50.00	0.070		0.030	0.030	0.022	0.312	0.001	0.854	1.319	0.130		0.030	0.070	0.410	0.340	0.000	1.010			Miedecke, 1998	
14/05/1999	Storys Creek > mine	ND	560970	5390539	Medec_2	6.40	0.02	1.00	2.00	0.31	0.068				0.034	0.006		0.014	0.122	0.190		0.000	0.000	0.160	0.010	0.000	0.010			Miedecke, 1998	
03/10/1997	Storys Creek > South Esk	MD	566437	5380072	Medec_27	6.40	0.12	16.00	1.00	30.00	0.100		0.030	0.029	0.100	0.200	0.001	0.896	1.356	0.300		0.030	0.060	0.300	0.200	0.000	0.990			Miedecke, 1998	
21/01/2000	Storys Ck @ Rossarden bridge	MD	561590	5386455	FM	6.01	0.12																				17.0		Gurung, 2001		
14/01/1998	Stream 1	ND	580388	5458811	E1	4.70	0.04			141.00	8.520		0.001	0.009	32.800	0.038	0.012	0.024	41.404									980109		SEM, 1998	
06/04/2000	Sullivan's farm, Pearshape Quarry	ND	238646	5560382	GWB-4	7.00	3.08	430.00	380.00	20.00	0.194		0.007	0.001	0.008	0.151	0.328	0.013	0.041	0.743	28.600	0.146	0.001	0.032	25.600	0.585	0.054	0.149	11.1	4985	Gurung, 2000
15/03/2000	Tamar Creek @ Browns Bridge Road	ND	585776	5465993	Wyniford	5.29	0.08	1.00	6.00	3.70	0.360		0.005	0.001	0.001	0.246	0.011	0.005	0.028	0.657	0.431	0.005	0.001	0.377	0.015	0.005	0.005	14.7	3919	Gurung, 2001	
10/04/2000	Tetham's Farm	ND	234215	5590812	GWB-9	7.15	1.23	6.00	257.00	10.00	0.226		0.005	0.001	0.009	0.055	0.005	0.005	0.007	0.313	0.427	0.068	0.001	0.060	35.200	0.073	0.032	0.041	11.8	4995	Gurung, 2000
10/04/2000	Tethams Road	ND	235302	5592507	GWB-10	8.17	5.01	240.00	235.00	8.00	0.157		0.005	0.001	0.002	0.108	0.005	0.013	0.003	0.294	0.626	0.005	0.001	0.001	0.446	0.024	0.018	0.005	11.9	4996	Gurung, 2000
11/05/2000	Tiddly Creek	ND	337032	5477645	Tiddly Ck	7.65	0.98	384.00	8.00	92.00	0.010		0.005	0.001	0.001	0.062	0.005	0.005	0.001	0.090	0.018	0.005	0.001	0.001	0.120	0.010	0.006	0.001	13.5	6205	Gurung, 2001
09/05/2000	Tin Creek < Specimen Hill	ND	323525	5429687	FM	5.31	0.45																				8.1		Gurung, 2001		
08/04/2000	Tin Creek	ND	245433	5583539	FM	6.69	0.33																				13.1		Gurung, 2001		
22/05/1991	Tipperary Creek	ND	375753	5367104	TppCk	5.20				3.17					0.001	0.007	0.001	0.057	0.066											Pasminco	
05/04/2000	Titford farm (Pittwater)	ND	234408	5593074	Titford	7.52	1.25	130.00	20.00	18.00	0.338		0.005	0.001	0.021	0.359	0.021	0.008	0.032	0.785	177.000	0.027	0.001	0.032	63.800	0.135	0.132	0.124	11.8	4976	Gurung, 2001
05/04/2000	Titford farm, Reekara Quarry	ND	234444	5593273	GWB-2	6.20	3.85	2300.00	101.00	71.00	0.014		0.005	0.001	0.001	7.770	3.100	0.040	0.101	11.032	0.946	0.005	0.001	0.002	48.500	3.160	0.045	0.136	11.4	4975	Gurung, 2000
04/06/1998	TME (central) surface runoff	MD	377261	5371604	Dell_11	2.44	3.10			11600.00	52.100	3.130	3.710	17.900	331.000	9.700	5.000	728.000	1150.540									7.2		Dellar, 1998	
03/02/2000	Tom Creek @ Zeehan Highway	ND	369904	5357107	TOMCK1	7.14	0.11	23.00	3.00	2.90	0.010		0.005	0.001	0.001	0.048	0.005	0.005	0.001	0.076	0.030	0.005	0.001	0.001	0.151	0.013	0.005	0.001	17.5	1494	Gurung, 2001
08/02/2001	Tomahawk Creek	ND	562928	5473513	FM	7.68	50.30																				23.0		Gurung, 2001		
08/02/2001	Tomahawk Creek @ Waterhouse Road	ND	562537	5470369	FM	7.34	0.29																				23.0		Gurung, 2001		
08/04/2000	Track Creek	ND	244839	5587718	FM	7.01	0.56																				12.2		Gurung, 2001		
06/12/2000	Trouser Point Road	ND	589065	5548830	Trouser Ck-1	6.25	0.48	1.00	13.00	8.70	0.771	0.891	0.005	0.005	0.001	0.001	0.001	0.001	1.676	0.287	0.461	0.013	0.013	0.005	0.005	0.015	0.007	15.8	14622	Gurung, 2001	
21/01/1998	Tuckers Ck @ Barnbougle Rd	ND	542675	5452800	3465	6.73	0.26			3.50	0.431		0.001	0.001	1.300	0.080	0.001	0.003	1.817									14.9		Hydrol	
21/01/1998	Tuckers Ck > Great Forester	ND	539925	5459725	3464	5.91	0.21			3.10	0.294		0.001	0.001	1.200	0.060	0.001	0.001	1.558									16.2		Hydrol	
09/03/1995	Tully River @ Rayner Road	ND	359000	5342300	A10	6.00	0.10			16.00			0.001	0.001			0.001	0.010	0.013									15.0		Krasnicki	
18/04/1996	Upper West Queen @ Lake Margaret Road	ND	380400	5342300	A01	6.10	0.05			0.90							0.005											9.5		Krasnicki	
06/01/1992	Vale River	ND	406722	5399949	Vale-U	7.41	0.23	126.40		2.00			0.001	0.001	0.060	0.030	0.001	0.020	0.113								9.9		Koehnken		
24/03/2000	Vicarys Creek upstream	ND	575302	5464877	Vicarys	6.34	0.40	7.00	59.00	0.26	0.074	0.005	0.001	0.001	0.459	0.029	0.005	0.001	0.575	0.954	0.012	0.001	0.002	67.300	0.044	0.005	0.012	14.2	4317	Gurung, 2001	
03/02/2000	Wakefield Ck @ Trial Harbour	ND	348635	5356153	FM	7.60	0.28																				17.8		Gurung, 2001		
17/02/2000	Waratah River @ Weirs Surprise mine	MD	375933	5414162	FM	4.25	1.31																					14.5		Gurung, 2001	
17/02/2000	Waratah River lower	MD	375768	5415215	FM	5.11	1.00																					12.3		Gurung, 2001	
17/02/2000	Waratah River tributary	MD	376305	5413361	FM	4.88	1.90																					12.5		Gurung, 2001	
10/05/2000	Welcome R @ H Marcus River Rd	ND	313707	5477629	Welcome	7.74	1.17	280.00	4.00	27.00	0.014	0.005	0.001	0.005	0.102	0.005	0.005	0.005	0.142	0.069	0.005	0.001	0.001	1.110	0.058	0.005	0.003	13.8	6196	Gurung, 2001	
22/01/1998	Weld River @ Frome Road	ND	573750	5446025	3486	6.11	0.08			1.40	0.000		0.001	1.030	0.029	0.130	0.001	0.001	1.192									17.3		Hydrol	
31/05/1994	West cutoff drain	MD	391300	5396230	H11	4.90	0.09	1.00		17.00		0.006	0.001	0.050	1.300	0.090	0.046	0.100	1.593											WMRL EMP	
17/06/1995	West Lyell WRD, North Arm	MD	381994	5342167	NA	2.60	8.85		10000.00	13900.00	870.000			127.000	2230.000	65.000		17.000	3309.000											Miedecke, 1996	
17/06/1995	West Lyell WRD, South Arm	MD	382421	5341348	SA	2.50	8.36		8300.00	11700.00	880.000			180.000	948.000	149.000		16.000	2173.000											Miedecke, 1996	
03/01/1998	Wetland feeding into S1.1	ND	576667	5464599	M3	6.60	0.06			5.40	1.950		0.001	0.005	14.800	0.033	0.004	0.013	16.806									980093		SEM, 1998	
19/04/1993	Wetland_1 outflow	MD	391665	5396480	H7	3.93	1.22	0.10		557.50		0.015	0.004	0.063	5.175	0.763	0.225	0.575	6.820									14.1		WMRL EMP	
19/04/1993	Wetland_2 outflow	MD	391475	5396220	H12	5.66	1.36	1.38		636.00		0.008	0.008	0.100	3.860	0.940	0.260	0.690	5.866											WMRL EMP	
19/05/1993	White Creek < Utah dumps	MD	383777	5342304	23	2.30			7267.00	4836.00				93.200	1430.000																Miedecke, 1996
19/05/1993	White Creek > Linda	MD	383776	5342082	24	2.50			2455.00	2170.00				28.000	411.000																Miedecke, 1996
07/12/2000	Whitemark	ND	587087	5559220	Pats R	7.52	8.10	171.00	12.00	250.00	1.100	1.480	0.005	0.005	0.001	0.001	0.003	0.001	2.596	4.440	6.820	0.563	0.790	0.005	0.005	0.011	0.006	15.6	14629	Gurung, 2001	

Date	Site	Type	Easting	Northing	Site ID	Field pH	Field EC	AlK	Acid	SO ₄ ²⁻	Al D	As D	Cd D	Cu D	Fe D	Mn D	Pb D	Zn D	S [Metals]	Al_T T	As_T T	Cd T	Cu T	Fe T	Mn T	Pb T	Zn T	Field T	Lab No.	Source
10/03/2000	Whyte River > Luina	ND	365640	5408010	WRA	7.68				1.55		0.001	0.016	0.050	0.170	0.050	0.050	0.050	0.387											WMRL EM
19/10/1999	Whyte River > Luina	ND	365743	5408210	A19	7.60	0.09			5.00			0.001	0.001				0.001	0.003								8.4		Krasnick	
21/01/1992	Whyte River lower	ND	341905	5387752	Whyte-L	6.47	0.11	15.90		2.00			0.001	0.001	0.190	0.030	0.001	0.120	0.343								15.8		Koehnker	
04/02/2000	Williamsford lower pond	MD	375962	5368168	WRCK13	3.02	2.48	1.00	1030.00	4100.00	12.500	0.007	0.505	3.790	5.520	31.100	0.648	271.000	325.070	12.600	0.019	0.510	3.390	11.900	31.600	0.665	352.000	18.8	1505	Gurung, 2001
04/02/2000	Williamsford roadside drain	MD	376005	5368116	WRCK9	2.99	2.66	1.00	1060.00	4400.00	12.900	0.007	0.533	3.290	7.900	32.100	0.840	318.000	375.570	14.100	0.022	0.545	3.590	11.000	35.200	0.891	361.000	18.8	1503	Gurung, 2001
04/02/2000	Williamsford upper pond	MD	376015	5368134	WRCK11	3.15	2.31	1.00	612.00	190.00	11.400	0.006	0.300	4.300	3.500	42.500	0.962	170.000	232.968	11.400	0.007	0.291	4.290	5.780	42.700	0.971	215.000	18.7	1504	Gurung, 2001
08/12/2000	Willis farm	ND	594787	5553070	FIGB-6	7.67	1.05	295.00	9.00	40.00	0.069	0.080	0.005	0.008	0.001	0.001	0.007	0.019	0.190	0.020	0.395	0.010	0.013	0.005	0.007	0.020	0.028	18.0	14759	Gurung, 2000
06/01/1992	Wilson River	ND	363973	5381459	Wilson	6.86	0.06	9.40		5.00			0.001	0.001	0.150	0.030	0.001	0.080	0.263								12.9		Koehnker	
12/03/1996	Wilson River @ Pieman Road	ND	364729	5382039	A17	6.20	0.06			2.00								0.007									12.1		Krasnick	
19/03/2000	WLT outflow	MD	381645	5341650	WLT	3.62				1826.83	2.200			2.466	125.290	31.980	0.010	3.853	165.799	31.730			2.530	133.900	31.980		3.870		CMT	
17/05/2000	Wollastonite Ck @ Kara Road	ND	399737	5426084	Wollast. ck	6.44	0.06	3.00	10.00	2.70	0.558	0.005	0.001	0.002	0.362	0.005	0.005	0.003	0.941	0.649	0.005	0.001	0.001	0.555	0.015	0.005	0.009	8.6	6296	Gurung, 2001
17/05/2000	Wollastonite Creek @ Upper Natone Road	ND	399554	5430119	Wollast. ck	6.89	0.06	7.00	6.00	2.70	0.392	0.005	0.001	0.001	0.295	0.005	0.005	0.005	0.709	0.534	0.005	0.001	0.001	0.622	0.029	0.005	0.006	8.6	6297	Gurung, 2001
15/03/2000	Wyniford River @ Garibaldi Road bridge	ND	579584	5451389	Wyniford1	5.82	0.07	1.00	6.00	1.60	0.385	0.005	0.001	0.001	0.252	0.020	0.005	0.006	0.675	0.482	0.005	0.001	0.001	0.411	0.025	0.005	0.003	15.3	3922	Gurung, 2001
22/01/1998	Wyniford R @ Garibaldi Road	ND	579575	5451400	3485	5.44	0.09			1.90	0.000		0.001	0.726	0.010	0.147	0.001	0.001	0.886								19.4		Hydro	
07/04/2000	Yarra Creek	ND	251446	5567782	Yarrack	7.19	0.39	7.00	33.00	7.00	0.216	0.005	0.001	0.001	0.559	0.005	0.005	0.003	0.795	0.153	0.005	0.001	0.002	2.980	0.187	0.005	0.008	12.4	4989	Gurung, 2001
20/07/1999	Yellow Rock River	ND	243500	5594650	3640	7.52	1.54			55.00					4.200	0.130											10.6		Hydro	
12/04/2000	Yellow Rock River	ND	234593	5599140	Yellow Rock	6.73	1.85	2.40	140.00	12.00	0.010	0.005	0.001	0.001	0.822	0.005	0.005	0.001	0.850	0.047	0.005	0.001	0.001	2.960	0.219	0.005	0.003	14.3	5222	Gurung, 2001
20/07/1999	Yellow Rock River	ND	240350	5599500	3638	6.10	2.28																				10.8		Hydro	
20/07/1999	Yellow Rock River	ND	240200	5596250	3636	6.36	3.44																				10.8		Hydro	
12/04/2000	Yellow Rock River (Lower)	ND	233028	5600135	Yellow Rock-1	7.82	1.70	71.00	300.00	9.00	0.143	0.005	0.001	0.003	0.087	0.096	0.005	0.014	0.354	0.238	0.005	0.001	0.001	0.493	1.180	0.005	0.006	14.5	5223	Gurung, 2001
10/04/2000	Yellow Rock River (Middle)	ND	236601	5598741	Yellow stone	7.67	4.76	240.00	448.00	16.00	0.217	0.005	0.001	0.001	0.083	0.005	0.015	0.004	0.331	0.166	0.005	0.001	0.001	0.359	2.540	0.012	0.007	12.7	4997	Gurung, 2001
03/02/2000	Yolande R @ Zeehan Highway	ND	376480	5346957	Yolande1	7.41	0.03	1.00	4.00	3.20	0.029	0.005	0.001	0.001	0.052	0.005	0.005	0.001	0.099	0.041	0.005	0.001	0.002	0.120	0.005	0.005	0.001	17.2	1496	Gurung, 2001
23/06/2000	Zeehan Montana mine	MD	360819	5362400	Zeemon	3.39	0.16	1.00	12.00	20.00	0.355	0.005	0.007	0.005	0.182	1.010	0.369	1.730	3.663	0.400	0.005	0.007	0.006	0.746	1.070	0.431	1.850	11.4	8051	Gurung, 2001
19/06/1997	Zeehan Queen No. 4	MD	360427	5361755	reco10	2.12																					14.2		Parr, 1997	
18/03/1997	Zeehan Rivulet	MD	362424	5361348	AT15	5.20	0.23						0.007	0.014			0.195	2.840	3.056								16.4		Krasnick	
19/06/1997	Zeehan Rivulet	MD	363351	5360519	ZWSS19	4.72	0.59	80.83			0.333		0.006	0.017	1.438	1.105	0.126	1.754	4.779								10.8		Parr, 1997	
19/06/1997	Zeehan Rivulet	MD	360569	5363441	recon1	3.83							0.027		0.074	0.329	6.873	0.061	7.364								24.8		Parr, 1997	
19/06/1997	Zeehan Rivulet	MD	362437	5361530	recon15	5.95							0.002		0.740	0.158	0.001	0.015	0.916								15.1		Parr, 1997	
19/06/1997	Zeehan Rivulet	MD	361270	5363238	recon2	4.28							0.006		0.868	0.172	1.409	0.741	3.196								19.5		Parr, 1997	
19/06/1997	Zeehan Rivulet	MD	361855	5362165	recon3	5.85							0.002		0.056	0.077	0.129	0.103	0.367								16.1		Parr, 1997	
18/05/1999	Zeehan Rt @ Heemskirk Rd	MD	360274	5363508	ZH016	4.96	0.09																							Earth System
19/02/1999	Zeehan Rt @ Parting Creek Rd	MD	361167	5363335	ZH007	4.12	0.19	1.00	14.00	28.00	0.315	0.001	0.005	0.006	0.395	1.080	0.192	0.802	2.796								12.8		Earth System	
03/02/2000	Zeehan Rt @ Zeehan Highway	MD	362989	5360789	Peasoup1	6.29	0.25	1.00	11.00	2.60	0.112	0.005	0.003	0.007	0.020	1.490	0.057	1.060	2.754	0.155	0.005	0.003	0.008	0.330	1.490	0.084	2.060	18.0	1493	Gurung, 2001
19/02/1999	Zeehan Rivulet @ Zeehan Highway bridge	MD	362992	5360793	ZH002	4.62	0.23	1.00	14.00	34.00	0.261	0.001	0.006	0.025	0.750	1.060	0.170	1.360	3.633								12.8		Earth System	
19/02/1999	Zeehan Rt > Peasoup Creek	MD	361819	5362200	ZH004	5.42	0.11	2.00	6.00	13.00	0.058	0.001	0.001	0.004	0.231	0.042	0.002	0.313	0.652								14.0		Earth System	
19/06/1997	Zeehan Rt > Silver Lead	MD	361868	5362135	ZWSS18	5.91	0.08	19.30		2.29	0.078	0.005	0.002	0.001	0.088	0.050	0.001	0.490	0.715								9.2		Parr, 1997	
19/06/1997	Zeehan west	MD	360459	5362926	ZWSS22	4.60	0.30	212.95		0.25	0.647	0.003	0.042	0.024	1.988	8.647	2.076	8.323	21.750								9.8		Parr, 1997	
19/06/1997	ZQ Lower	MD	360424	5361750	ZWSS20	2.85	1.43	1172.50			5.708	0.210	0.049	0.101	98.675	9.991	0.562	13.192	128.488								11.3		Parr, 1997	
19/06/1997	ZQ Upper	MD	360419	5361602	ZWSS21	2.32	3.18	1965.00			16.961	1.809	0.031	2.148	149.060	1.084	1.090	4.906	177.089								9.7		Parr, 1997	

Appendix 3

Geochemical data

Explanations

FIELD_NO	Field number of sample
REG_NO	Registration number at laboratory
AMGE	Easting
AMGN	Northing
LOCALITY	Location of sample site
GEOLOGY	Geology rock types
LITHOLOGY	Lithological description
RCODE	Rock code of geological units
pH	Paste pH of the sample
EC	Electrical conductivity of the paste sample
TS	Total S (%)
MPA	Maximum potential acidity
ANC	Acid neutralising capacity
GCLASS	Geochemical classification
	1 = Non-acid forming rock (NAFR)
	2 = Potential acid forming rock (PAFR)
	3 = Acid forming rock (AFR)
Trace elements:	arsenic (As), cobalt (Co), copper (Cu), nickel (Ni), lead (Pb), tin (Sn), tungsten (W) and zinc (Zn) in mg/kg
Major elements:	silica (Si), iron (Fe), titanium (Ti), aluminium (Al), manganese (Mn), magnesium (Mg), calcium (Ca), sodium (Na), potassium (K) and phosphorous (P) in %
ORIG	Sample collector's initials
Source	Data source
	Gurung = S. Gurung, 2001
	Rockchem = Rockchem database

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
E201241	20000554	424291	5406106	All Nations mine	COu	Sandstone	2501	6.20	0.17	0.10	3.06	-4.90	7.96	2	SRG	Gurung
E201167	20000296	584923	5435376	Anchor mine	Dgaa	Granite	4052	7.00	0.42	0.10	3.06	18.62	-15.56	1	SRG	Gurung
E201166	20000295	584953	5435256	Anchor mine	Dgaa	Granite	4052	6.80	1.21	0.10	3.06	17.64	-14.58	1	SRG	Gurung
E201119	20000056	360370	5361288	Argent 4 Zeehan	Lo	Siltstone	10	5.00	0.68	13.20	403.92	0.98	402.94	3	SRG	Gurung
E201284	20000613	362778	5358250	Austral Smelter site	Slag	Slag	20000613	6.70	1.03	2.90	88.74	73.95	14.79	2	SRG	Gurung
E201106	20000043	363108	5358443	Austral Smelter site	Slag	Slag	20000043	6.00	1.41	4.10	125.46	86.44	39.02	3	SRG	Gurung
E201285	20000614	362787	5358247	Austral Smelter site	Slag	Slag	20000614	6.40	10.20	22.50	688.50	71.07	617.43	3	SRG	Gurung
E201311	20000726	362816	5358159	Austral tailings	Tailings	Mudstone	20000726	4.50	3.63	9.80	299.88	14.70	285.18	3	SRG	Gurung
E201309	20000724	362802	5358079	Austral tailings	Tailings	Siltstone	20000724	6.40	4.41	20.20	618.12	87.22	530.90	3	SRG	Gurung
E201310	20000725	362816	5358059	Austral tailings	Tailings	Siltstone	20000725	3.90	3.41	27.70	847.62	1.08	846.54	3	SRG	Gurung
E201338	20010015	600636	5544137	Badger Corner	OD	Sandstone	3004	8.20	0.84	0.10	3.06	12.74	-9.68	1	SRG	Gurung
E201339	20010016	600525	5544746	Badger Corner	OD	Sandstone	3004	6.40	0.17	0.10	3.06	9.60	-6.54	1	SRG	Gurung
E201336	20010013	601293	5545527	Badger Head	OD	Sandstone	3004	7.50	2.66	0.10	3.06	6.86	-3.80	1	SRG	Gurung
E201236	20000549	324491	5429943	Balfour	Lrc	Sandstone	57	6.30	1.56	0.10	3.06	0.98	2.08	2	SRG	Gurung
E201234	20000547	324037	5429804	Balfour	Lrc	Sandstone	57	8.70	1.12	11.10	339.66	-2.74	342.40	3	SRG	Gurung
E201104	20000041	324121	5429893	Balfour	Lrc	Siltstone	57	2.40	23.20	14.10	431.46	-3.72	435.18	3	SRG	Gurung
E201105	20000042	324200	5429613	Balfour	Lrc	Siltstone	57	2.40	12.20	15.00	459.00	-0.49	459.49	3	SRG	Gurung
E201235	20000548	324487	5429535	Balfour	Lrc	Shale	57	8.60	1.40	19.50	596.70	-3.43	600.13	3	SRG	Gurung
E201233	20000546	324058	5429824	Balfour	Lrc	Siltstone	57	5.50	0.82	27.00	826.20	0.49	825.71	3	SRG	Gurung
E201316	20000731	511823	5437607	Bangor quarry-1	ODm	Slate	3006	4.80	0.63	0.10	3.06	0.29	2.77	2	SRG	Gurung
E201317	20000732	511727	5437720	Bangor quarry-1	ODm	Slate	3006	6.30	0.09	0.10	3.06	0.00	3.06	2	SRG	Gurung
E201318	20000733	510687	5439983	Bangor quarry-2	ODq	Slate	3005	5.90	0.30	0.10	3.06	0.00	3.06	2	SRG	Gurung
E201333	20010010	592284	5542675	Big River Road	Dgas	Granite	4095	4.70	0.63	0.10	3.06	0.49	2.57	2	SRG	Gurung
E201237	20000550	424099	5405988	Bismuth Creek pit	COu	Sandstone	2501	7.10	0.12	0.10	3.06	-2.94	6.00	2	SRG	Gurung
E201238	20000551	424172	5406093	Bismuth Creek pit	COu	Sandstone	2501	6.20	0.42	0.10	3.06	-3.43	6.49	2	SRG	Gurung
E201164	20000293	585064	5451565	Blue Tier	Dgaa	Granite	4052	7.30	0.74	0.10	3.06	8.33	-5.27	1	SRG	Gurung
E201108	20000045	412289	5434376	Blythe River	Tb	Basalt	6501	6.60	0.30	0.10	3.06	1.27	1.79	2	SRG	Gurung
E201107	20000044	410289	5434676	Blythe River	Dga	Granite	4053	5.10	0.67	0.10	3.06	-1.47	4.53	2	SRG	Gurung
E201323	20000738	567555	5444267	Briseis mine, Derby	Dgafs	Granite	4093	7.70	0.32	0.10	3.06	2.74	0.32	2	SRG	Gurung
E201325	20010002	588072	5560699	Cannes Hill	Dgaas	Granite	4094	7.80	0.13	0.10	3.06	3.43	-0.37	1	SRG	Gurung
E201326	20010003	588035	5560711	Cannes Hill	Dgaas	Granite	4094	7.60	0.20	0.10	3.06	1.47	1.59	2	SRG	Gurung
E201109	20000046	427667	5408349	Cethana	Cdsv	Siltstone	1581	8.60	0.70	0.10	3.06	37.24	-34.18	1	SRG	Gurung
E201239	20000552	427700	5407843	Cethana	COu	Sandstone	2501	4.40	0.81	0.80	24.48	-2.74	27.22	3	SRG	Gurung
E201312	20000727	427978	5406923	Cethana Dam Road	COu	Sandstone	2501	7.30	0.26	0.10	3.06	-2.45	5.51	2	SRG	Gurung
E201120	20000057	357400	5360300	Comstock-Zeehan	Lo	Siltstone	10	4.90	5.69	28.40	869.04	1.37	867.67	3	SRG	Gurung
E201278	20000607	357350	5360700	Comstock-Zeehan	Lo	Siltstone	10	3.70	9.51	34.50	1055.70	4.21	1051.49	3	SRG	Gurung
E201321	20000736	581306	5459814	Endurance mine	Dgaa	Granite	4052	5.00	0.06	0.10	3.06	-0.98	4.04	2	SRG	Gurung
E201322	20000737	581307	5459811	Endurance mine	Dgaa	Granite	4052	4.50	0.12	0.10	3.06	-0.98	4.04	2	SRG	Gurung
E201169	20000298	579596	5458514	Endurance mine	Tailings	Sediment	20000298	2.10	8.12	4.60	140.76	-11.52	152.28	3	SRG	Gurung
E201170	20000299	579542	5458453	Endurance mine	Tailings	Sediment	20000299	2.00	6.00	6.90	211.14	-0.96	212.10	3	SRG	Gurung

FIELD No	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
E201351	20010028	578129	5579848	Five Mile Road	Dgaa	Granite	4052	7.70	0.45	0.10	3.06	90.06	-87.00	1	SRG	Gurung
E201282	20000611	361275	5361238	Florence-Zeehan	Cdsp	Siltstone	1598	5.80	1.65	7.10	217.26	78.40	138.86	3	SRG	Gurung
E201332	20010009	593832	5571089	Furneaux Quarry	Dgaas	Granite	4094	7.90	0.16	0.10	3.06	4.21	-1.15	1	SRG	Gurung
E201331	20010008	594025	5570929	Furneaux Quarry	Dgaas	Granite	4094	7.20	0.27	0.10	3.06	1.27	1.79	2	SRG	Gurung
E201330	20010007	594044	5570885	Furneaux Quarry	Dgass	Granite	4095	7.20	0.17	0.10	3.06	0.98	2.08	2	SRG	Gurung
E201179	20000308	250766	5562954	Grassy	Lsv	Greywacke	41	6.30	0.98	0.10	3.06	63.70	-60.64	1	SRG	Gurung
E201180	20000309	250238	5562769	Grassy	Lsv	Greywacke	41	6.10	6.66	0.10	3.06	47.04	-43.98	1	SRG	Gurung
E201181	20000310	250170	5563261	Grassy	Lsv	Sandstone	41	5.60	0.16	0.30	9.18	3.92	5.26	2	SRG	Gurung
E201344	20010021	575616	5584225	Gravel pit	Ts	Sandstone	6505	7.80	0.70	0.10	3.06	72.52	-69.46	1	SRG	Gurung
E201343	20010020	575606	5584325	Gravel pit	Ts	Granite	6505	8.30	0.24	0.10	3.06	2.94	0.12	2	SRG	Gurung
E201163	20000292	579446	5459383	Garibaldi road	Dgaa	Granite	4052	5.20	1.74	0.10	3.06	7.45	-4.39	1	SRG	Gurung
E201324	20010001	588981	5558622	Hays Hill gravel pit	Dgaas	Granite	4094	7.30	0.31	0.10	3.06	6.66	-3.60	1	SRG	Gurung
E201261	20000590	394319	5395495	Hellyer	Cdsv	Siltstone	1581	7.20	3.71	16.90	517.14	87.22	429.92	3	SRG	Gurung
E201262	20000591	394321	5395581	Hellyer	Cdsv	Siltstone	1581	5.80	0.99	19.40	593.64	-1.47	595.11	3	SRG	Gurung
E201263	20000592	394344	5395263	Hellyer	Cdsv	Siltstone	1581	5.70	0.68	21.10	645.66	-1.76	647.42	3	SRG	Gurung
E201288	20000617	376620	5367560	Hercules	Cdv	Siltstone	1584	5.90	1.02	11.10	339.66	0.98	338.68	3	SRG	Gurung
E201289	20000618	376600	5366700	Hercules	Cdv	Siltstone	1584	6.20	0.97	18.60	569.16	3.23	565.93	3	SRG	Gurung
E201287	20000616	376650	5366150	Hercules	Cdv	Siltstone	1584	4.90	2.88	22.50	688.50	11.76	676.74	3	SRG	Gurung
E201286	20000615	376565	5365630	Hercules	Cdv	Siltstone	1584	5.40	3.65	23.70	725.22	6.17	719.05	3	SRG	Gurung
E201347	20010024	585689	5563927	Hines Road	Dgr	Granite	4049	7.60	0.25	0.10	3.06	9.70	-6.64	1	SRG	Gurung
E201348	20010025	586839	5567323	Hines Road	OD	Sandstone	3004	7.90	1.47	0.10	3.06	5.68	-2.62	1	SRG	Gurung
E201308	20000723	383651	5341790	King Lyell	Cdv	Sandstone	1584	6.30	0.30	0.40	12.24	0.49	11.75	2	SRG	Gurung
E201315	20000730	530231	5442886	Lilydale Road	ODq	Sandstone	3005	6.70	0.35	0.10	3.06	0.49	2.57	2	SRG	Gurung
E201242	20000555	401533	5425002	Lohrey's pit	COu	Sandstone	2501	6.00	1.42	1.30	39.78	23.52	16.26	2	SRG	Gurung
E201349	20010026	582102	5561767	Long Point	OD	Mudstone	3004	8.60	0.23	0.10	3.06	6.66	-3.60	1	SRG	Gurung
E201313	20000728	428298	5407274	Lorrina Road mine face	COu	Sandstone	2501	5.10	0.73	0.50	15.30	0.00	15.30	2	SRG	Gurung
E201114	20000051	424798	5325631	Lyell Highway	Lt	Schist	8	6.00	0.54	0.10	3.06	-0.74	3.80	2	SRG	Gurung
E201140	20000104	370113	5410734	Magnet Mine	Cw	Sandstone	1513	8.20	0.23	0.10	3.06	17.60	-14.54	1	SRG	Gurung
E201139	20000103	370113	5410734	Magnet Mine	Cw	Siltstone	1513	7.50	0.27	0.50	15.30	9.96	5.34	2	SRG	Gurung
E201329	20010006	589393	5567769	Memana Road	OD	Mudstone	3004	5.10	0.61	0.10	3.06	0.88	2.18	2	SRG	Gurung
E201328	20010005	589325	5565534	Memana Road	OD	Mudstone	3004	5.00	0.16	0.10	3.06	0.29	2.77	2	SRG	Gurung
E201327	20010004	589199	5564964	Memana Road	Ts	Granite	6505	4.70	0.28	0.10	3.06	0.29	2.77	2	SRG	Gurung
E201112	20000049	563987	5426271	Mathinna Plains Road	ODq	Siltstone	3005	8.00	0.49	0.10	3.06	59.78	-56.72	1	SRG	Gurung
E201385	20010102	462400	5263000	Maydena Quarry	Cc	Lithicwacke	1573	8.20	0.35	0.10	3.06	33.32	-30.26	1	SRG	Gurung
E201111	20000048	435294	5396095	Mersey River	Ol	Limestone	3007	8.00	0.25	0.10	3.06	125.44	-122.38	1	SRG	Gurung
E201240	20000553	423623	5406438	Moina mine	COu	Sandstone	2501	7.20	0.33	0.10	3.06	39.20	-36.14	1	SRG	Gurung
E201273	20000602	359762	5364852	Montana-Zeehan	Lo	Siltstone	10	4.80	2.30	1.20	36.72	19.60	17.12	2	SRG	Gurung
E201122	20000059	349340	5358320	Mt Agnew	Dga	Granite	4053	7.00	0.73	0.10	3.06	5.49	-2.43	1	SRG	Gurung
E201121	20000058	350520	5359540	Mt Agnew	Dga	Granite	4053	6.10	0.38	0.10	3.06	-0.62	3.68	2	SRG	Gurung

FIELD No	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
E201141	20000105	376517	5412089	Mt Bischoff	Lo	Calcsilicate	10	7.00	0.38	1.10	33.66	104.86	-71.20	1	SRG	Gurung
E201142	20000106	376594	5412017	Mt Bischoff	Lo	Porphyry	10	4.70	0.17	0.90	27.54	-0.98	28.52	3	SRG	Gurung
E201102	20000039	376234	5412479	Mt Bischoff	Lo	Porphyry	10	3.70	2.39	1.30	39.78	0.86	38.92	3	SRG	Gurung
E201143	20000107	376529	5411989	Mt Bischoff	Lo	Calcsilicate	10	5.60	0.36	2.30	70.38	5.88	64.50	3	SRG	Gurung
E201101	20000038	376234	5412479	Mt Bischoff	Lo	Siltstone	10	4.30	21.00	15.60	477.36	115.64	361.72	3	SRG	Gurung
E201113	20000050	581054	5459774	Mt Cameron	Dgaa	Granite	4052	5.20	0.26	0.10	3.06	-0.86	3.92	2	SRG	Gurung
E201269	20000598	386312	5379186	Mt Farrell	Cds	Siltstone	1572	4.50	2.81	2.20	67.32	28.42	38.90	3	SRG	Gurung
E201268	20000597	386430	5379486	Mt Farrell	Cds	Siltstone	1572	5.80	1.33	7.80	238.68	36.26	202.42	3	SRG	Gurung
E201118	20000055	383284	5331258	Mt Jukes Road	Cdv	Sandstone	1584	7.00	0.51	0.10	3.06	12.74	-9.68	1	SRG	Gurung
E201115	20000052	383691	5341886	Mt Lyell	Cdv	Tuff	1584	7.10	0.34	0.10	3.06	5.68	-2.62	1	SRG	Gurung
E201272	20000601	381342	5341295	Mt Lyell	Cdvt	Tuff	1582	7.80	0.91	2.60	79.56	31.36	48.20	3	SRG	Gurung
E201270	20000599	383177	5344858	Mt Lyell	Cdv	Tuff	1584	6.20	3.62	3.40	104.04	9.11	94.93	3	SRG	Gurung
E201271	20000600	382800	5341900	Mt Lyell-Prince Lyell	Cdv	Tuff	1584	7.50	1.90	3.80	116.28	23.52	92.76	3	SRG	Gurung
E201116	20000053	383304	5341501	Mt Lyell-Iron Blow	Cdv	Tuff	1584	6.90	0.25	0.10	3.06	5.49	-2.43	1	SRG	Gurung
E201345	20010022	570475	5584550	Mt Tanner	Dgafs	Granite	4093	7.80	0.27	0.10	3.06	4.21	-1.15	1	SRG	Gurung
E201355	20010032	575114	5585155	Mt Tanner Tin mine	Ts	Granite	6505	4.40	0.05	0.10	3.06	0.00	3.06	2	SRG	Gurung
E201353	20010030	575150	5585141	Mt Tanner Tin mine	Ts	Slate	6505	4.60	0.75	0.10	3.06	0.00	3.06	2	SRG	Gurung
E201354	20010031	575126	5585162	Mt Tanner Tin mine	Ts	Slate	6505	2.80	1.90	0.40	12.24	0.00	12.24	2	SRG	Gurung
E201117	20000054	380408	5330220	Newall Creek	Cdv	Siltstone	1584	7.10	0.16	0.10	3.06	-0.25	3.31	2	SRG	Gurung
E201279	20000608	357600	5361223	North Comstock Zeehan	Lo	Siltstone	10	4.10	1.57	0.30	9.18	-0.29	9.47	2	SRG	Gurung
E201314	20000729	435045	5397019	Olivers Road	Ol	Limestone	3007	7.70	0.34	0.10	3.06	108.78	-105.72	1	SRG	Gurung
E201161	20000290	360200	5362600	Oonah-Zeehan	Lo	Siltstone	10	2.90	11.30	14.80	452.88	-4.21	457.09	3	SRG	Gurung
E201384	20010099	601230	5413740	Orieco mine	ODq	Tailings	3005	4.70	0.92	0.60	18.36	0.00	18.36	2	SRG	Gurung
E201341	20010018	579047	5573359	Palana Road	Qpl	Sandstone	7528	7.60	3.11	0.10	3.06	72.72	-69.66	1	SRG	Gurung
E201340	20010017	581090	5578640	Palana Road	Qpl	Sandstone	7528	7.70	0.34	0.10	3.06	72.03	-68.97	1	SRG	Gurung
E201342	20010019	576488	5581531	Palana Road	Dgaa	Granite	4052	8.60	0.34	0.10	3.06	13.72	-10.66	1	SRG	Gurung
E201346	20010023	576606	5587402	Palana Road	Dgafs	Granite	4093	4.60	0.10	0.10	3.06	0.00	3.06	2	SRG	Gurung
E201174	20000303	238591	5560440	Pearshape Quarry	Lr	Siltstone	28	2.00	6.00	0.10	3.06	-1.96	5.02	2	SRG	Gurung
E201173	20000302	238453	5560354	Pearshape Quarry	Lr	Siltstone	28	2.10	8.12	0.60	18.36	12.74	5.62	2	SRG	Gurung
E201172	20000301	238443	5560480	Pearshape Quarry	Lr	Siltstone	28	4.70	0.15	0.60	18.36	0.29	18.07	2	SRG	Gurung
E201168	20000297	577350	5452227	Pioneer mine	Tailings	Tailings	20000297	4.70	0.15	0.10	3.06	-3.75	6.81	2	SRG	Gurung
E201260	20000589	391675	5393813	Que River	Cdv	Siltstone	1584	2.80	8.30	36.50	1116.90	-0.78	1117.68	3	SRG	Gurung
E201276	20000605	360425	5361750	Queen Hill 4 Zeehan	Ol	Siltstone	3007	4.70	4.02	30.90	945.54	56.84	888.70	3	SRG	Gurung
E201160	20000289	360540	5362300	Queen Hill Zeehan	Lo	Siltstone	10	3.30	10.55	15.90	486.54	4.21	482.33	3	SRG	Gurung
E201334	20010011	588997	5544855	Razorback Mount	Dgas	Granite	4095	7.00	0.16	0.10	3.06	2.45	0.61	2	SRG	Gurung
E201176	20000305	234853	5593111	Reekara Quarry	Lg	Granite	2	5.40	2.38	0.10	3.06	29.40	-26.34	1	SRG	Gurung
E201175	20000304	234782	5593358	Reekara Quarry	Lg	Granite	2	4.30	0.25	0.10	3.06	0.78	2.28	2	SRG	Gurung
E201125	20000062	369364	5371192	Renison	Ldv	Sandstone	35	4.60	2.75	0.60	18.36	9.80	8.56	2	SRG	Gurung
E201258	20000587	369699	5370905	Renison	Ldv	Siltstone	35	5.00	6.45	14.50	443.70	72.52	371.18	3	SRG	Gurung

FIELD No	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
E201257	20000586	370001	5371413	Renison	Ldv	Siltstone	35	6.90	4.03	15.70	480.42	84.28	396.14	3	SRG	Gurung
E201256	20000585	370602	5371555	Renison	Ldv	Siltstone	35	6.50	4.08	14.60	446.76	44.10	402.66	3	SRG	Gurung
E201259	20000588	370472	5371297	Renison	Ldv	Siltstone	35	5.00	8.04	15.90	486.54	73.50	413.04	3	SRG	Gurung
E201103	20000040	369364	5371192	Renison	Ldv	Siltstone	35	2.60	14.00	13.60	416.16	-0.86	417.02	3	SRG	Gurung
E201124	20000061	369364	5371192	Renison	Ldv	Siltstone	35	2.90	8.25	16.20	495.72	0.37	495.35	3	SRG	Gurung
E201265	20000594	369340	5371220	Renison	Ldv	Siltstone	35	4.60	3.82	19.70	602.82	39.20	563.62	3	SRG	Gurung
E201264	20000593	369340	5371220	Renison	Ldv	Siltstone	35	4.50	3.49	25.20	771.12	19.60	751.52	3	SRG	Gurung
E201178	20000307	248152	5587557	Ridges Road	Tf	Ferricrete	7530	5.50	0.53	0.10	3.06	-0.49	3.55	2	SRG	Gurung
E201177	20000306	248097	5587348	Ridges Road	Tf	Ferricrete	7530	4.80	3.67	0.20	6.12	1.76	4.36	2	SRG	Gurung
E201290	20000619	378418	5374105	Rosebery mine	Cdv	Siltstone	1584	6.10	1.22	13.80	422.28	7.35	414.93	3	SRG	Gurung
E201291	20000620	378418	5374105	Rosebery mine	Cdv	Siltstone	1584	6.80	2.44	16.60	507.96	24.50	483.46	3	SRG	Gurung
E201292	20000621	378662	5374562	Rosebery north pit	Cdv	Siltstone	1584	6.10	0.94	26.00	795.60	0.49	795.11	3	SRG	Gurung
E201293	20000622	378821	5374186	Rosebery south pit	Cdv	Siltstone	1584	6.10	0.99	18.90	578.34	10.78	567.56	3	SRG	Gurung
E201243	20000556	429373	5406793	Round Hill mine	COu	Sandstone	2501	4.10	1.28	0.70	21.42	-2.94	24.36	3	SRG	Gurung
E201110	20000047	485913	5363956	Sandbanks Tier	Jd	Dolerite	6001	7.30	0.26	0.10	3.06	20.58	-17.52	1	SRG	Gurung
E201335	20010012	601075	5547350	Sapphire River	Tb	Basalt	6501	8.00	0.50	0.10	3.06	6.26	-3.20	1	SRG	Gurung
E201267	20000596	349587	5405637	Savage River mine (CP)	Lma	Amphibolite	32	7.70	0.79	1.40	42.84	32.34	10.50	2	SRG	Gurung
E201266	20000595	350492	5407826	Savage River mine (NP)	Lac	Magnesite	31	8.60	0.79	0.60	18.36	9.46	8.90	2	SRG	Gurung
E201165	20000294	553567	5441920	Scottsdale Road	Dgaf	Granite	4041	7.00	0.46	0.10	3.06	-0.78	3.84	2	SRG	Gurung
E201280	20000609	360290	5360040	Silver Spray Zeehan	Lo	Siltstone	10	6.10	0.62	6.60	201.96	0.29	201.67	3	SRG	Gurung
E201281	20000610	360204	5360231	Silver Spray Zeehan	Cdsp	Siltstone	1598	5.90	2.41	9.80	299.88	37.24	262.64	3	SRG	Gurung
E201137	20000101	357645	5381611	Stanley Creek	Lo	Sandstone	10	7.90	0.13	0.10	3.06	24.50	-21.44	1	SRG	Gurung
E201138	20000102	357812	5382533	Stanley Creek	Dga	Granite	4053	6.60	0.03	0.10	3.06	0.29	2.77	2	SRG	Gurung
E201162	20000291	360700	5361890	Stormsdown Zeehan	Lo	Siltstone	10	3.90	4.98	5.10	156.06	-3.23	159.29	3	SRG	Gurung
E201277	20000606	358300	5361310	Sylvester-Comstock	Lo	Siltstone	10	5.60	0.89	20.40	624.24	-2.45	626.69	3	SRG	Gurung
E201319	20000734	565156	5474655	Tomahawk	Dgaa	Granite	4052	9.30	0.39	0.10	3.06	15.68	-12.62	1	SRG	Gurung
E201123	20000060	352142	5357407	Trial Harbour Road	Dga	Granite	4053	4.90	0.57	0.10	3.06	-0.98	4.04	2	SRG	Gurung
E201337	20010014	606045	5549175	Vinegar Hill	Dgaas	Granite	4094	7.50	1.26	0.10	3.06	11.76	-8.70	1	SRG	Gurung
E201352	20010029	586533	5585971	Wingaroo	Tm	Limestone	6503	7.50	0.54	0.10	3.06	73.40	-70.34	1	SRG	Gurung
E201350	20010027	576097	5571207	Wireless Hill, Emita	Dgn	Granite	4042	8.80	0.21	0.10	3.06	5.19	-2.13	1	SRG	Gurung
E201320	20000735	577881	5468281	Waterhouse Rd quarry	ODq	Sandstone	3005	7.40	0.26	0.10	3.06	8.33	-5.27	1	SRG	Gurung
E201275	20000604	360980	5362130	Zeehan (Poverty Point)	Lo	Siltstone	10	6.00	1.81	2.30	70.38	38.22	32.16	3	SRG	Gurung
E201283	20000612	361122	5361811	Zeehan Queen 2	Cdsp	Sandstone	1598	4.30	0.83	2.80	85.68	0.96	84.72	3	SRG	Gurung
E201274	20000603	361100	5362680	Zeehan-Montana	Ol	Siltstone	3007	5.90	1.59	7.80	238.68	92.12	146.56	3	SRG	Gurung
ABM8588		350000	5405000	Savage River mine	Lac	Basalt	31	8.10		3.34	102.20	38.95	63.25	3	EGI	Egi, 1996
JC 1186		370000	5371400	Renison mine	Ldv	Siltstone	35			25.00	765.00	-11.00	776.00	3	EGI	Egi, 1999
M2		560800	5390300	Storys Creek	Tailings	Unoxidised	19980001	5.90	0.11	0.04	1.22	1.00	0.22	2	MIED	Miedecke
AR17*		378317	5352970	Anthony Road	Cdsv	Dacite	1581			0.06	1.84	30.31	-28.47	1	AJS	Rockchem
401048		386180	5373020	Anthony Road	Cdq	Lava	1738			0.06	1.84	30.00	-28.16	1	JWH	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
401044		386240	5373580	Anthony Road	Cdq	Breccia	1738			0.06	1.84	30.00	-28.16	1	JWH	Rockchem
401051		386130	5372470	Anthony Road	Cdq	Lava	1738			0.07	2.14	30.00	-27.86	1	JWH	Rockchem
AR10*		380693	5356881	Anthony Road	Cdvt	Dacite	1582			0.12	3.67	31.36	-27.69	1	AJS	Rockchem
AR15*		378861	5354381	Anthony Road	Cdsv	Dacite	1581			0.09	2.75	30.31	-27.56	1	AJS	Rockchem
401039		385920	5374540	Anthony Road	Cdq	Lava	1738			0.08	2.45	30.00	-27.55	1	JWH	Rockchem
AR13*		379827	5355297	Anthony Road	Cda	Andesite	1737			0.10	3.06	30.00	-26.94	1	AJS	Rockchem
401042		386280	5374080	Anthony Road	Cdq	Lava	1738			0.12	3.67	30.00	-26.33	1	JWH	Rockchem
401182		386430	5368400	Anthony Road	Cdq	Lava	1738			0.12	3.67	30.00	-26.33	1	JWH	Rockchem
401173		386300	5372030	Anthony Road	Cdq	Lava	1738			0.18	5.51	30.00	-24.49	1	JWH	Rockchem
401179		386670	5370130	Anthony Road	Cgr	Adamellite	1504			0.22	6.73	31.00	-24.27	1	JWH	Rockchem
401054		385700	5377760	Anthony Road	Cds	Lava	1572			0.16	4.90	27.56	-22.66	1	JWH	Rockchem
401177		386540	5371230	Anthony Road	Cgr	Adamellite	1504			0.32	9.79	31.00	-21.21	1	JWH	Rockchem
31688		375060	5350850	Anthony Road	Cdsv	Dacite	1581			0.50	15.30	30.31	-15.01	1	PAS	Rockchem
401041		386060	5374140	Anthony Road	Cdq	Lava	1738			0.50	15.30	30.00	-14.70	1	JWH	Rockchem
401100		381550	5359420	Anthony Road	CO n	Schist	2508			0.08	2.45	6.26	-3.81	1	JWH	Rockchem
401172		386240	5372270	Anthony Road	Cdq	Breccia	1738			1.53	46.82	30.00	16.82	2	JWH	Rockchem
LH1/C		379366	5353503	Anthony Road	Cdsv	Rhyolite	1581			0.07	2.14	30.31	-28.17	1	AJS	Rockchem
624207		380214	5355278	Anthony Road	Cda	Andesite	1737			0.07	2.14	30.00	-27.86	1	AB	Rockchem
HA8/B		380615	5358620	Anthony Road	Cdvt	Rhyolite	1582			3.80	116.28	31.36	84.92	3	AJS	Rockchem
LH1/D		379366	5353693	Anthony Road	Cdv	Rhyolite	1584			3.40	104.04	7.58	96.46	3	AJS	Rockchem
AR137C	5063	325250	5446920	Arthur River	Lss	Dolomite	43			0.13	3.98	90.00	-86.02	1	JLE	Rockchem
401357		321700	5435800	Balfour Road	Lrc	Siltstone	57			0.10	3.06	-1.49	4.55	2	RGR	Rockchem
Leven 1		423200	5432800	Bannons Park	Cdsv	Conglomerate	1581			0.08	2.45	30.31	-27.86	1	RAS	Rockchem
401375		361550	5476050	Bass Highway	Lrc	Sandstone	57			0.07	2.14	-1.49	3.63	2	RGR	Rockchem
BH-12		390476	5399480	Black Harry Road	Cdsq	Dacite	1739			0.26	7.96	21.30	-13.34	1	KDC	Rockchem
401373		357250	5476650	Black River	Lsc	Conglomerate	44			0.13	3.98	90.00	-86.02	1	RGR	Rockchem
401351		329300	5446200	Blackwater River	Lsv	Greywacke	41			0.12	3.67	38.22	-34.55	1	RGR	Rockchem
401350		330580	5446280	Blackwater River	Lsb	Tuff	42			0.14	4.28	36.26	-31.98	1	RGR	Rockchem
FJ321	4964	324360	5435260	Blackwater Rivulet	Lsc	Basalt	44			0.06	1.84	90.00	-88.16	1	JLE	Rockchem
401257		377830	5384740	Boco Road	Cdsv	Tuff	1581			0.09	2.75	30.31	-27.56	1	JWH	Rockchem
401255		378280	5384880	Boco Road	Cdsv	Greywacke	1581			0.29	8.87	30.31	-21.44	1	JWH	Rockchem
401256		377860	5384670	Boco Road	Cdsv	Siltstone	1581			0.47	14.38	30.31	-15.93	1	JWH	Rockchem
401250		379030	5385260	Boco Road	Cdv	Tuff	1584			0.06	1.84	7.58	-5.74	1	JWH	Rockchem
MR671		381200	5385400	Boco Road	Cdv	Rhyodacite	1584			0.07	2.14	7.58	-5.44	1	KDC	Rockchem
401254		378380	5385000	Boco Road	Cdv	Siltstone	1584			0.09	2.75	7.58	-4.82	1	JWH	Rockchem
401228		381060	5385340	Boco Road	Cdv	Lava	1584			0.10	3.06	7.58	-4.52	1	JWH	Rockchem
401066		377750	5351950	Bradshaws Road	Cdsv	Tuff	1581			0.06	1.84	30.31	-28.47	1	JWH	Rockchem
401037		377660	5351740	Bradshaws Road	Cdsv	Tuff	1581			0.08	2.45	30.31	-27.86	1	JWH	Rockchem
401026		376540	5350040	Bradshaws Road	Cqf	Lava	1520			0.07	2.14	30.00	-27.86	1	JWH	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
401070		378120	5352580	Bradshaws Road	Cdsv	Tuff	1581			0.11	3.37	30.31	-26.94	1	JWH	Rockchem
401031		377060	5351260	Bradshaws Road	Cdsv	Shale	1581			0.12	3.67	30.31	-26.64	1	JWH	Rockchem
401080		378860	5354160	Bradshaws Road	Cdsv	Tuff	1581			0.12	3.67	30.31	-26.64	1	JWH	Rockchem
401025		376220	5351020	Bradshaws Road	Cqf	Tuff	1520			0.15	4.59	30.00	-25.41	1	JWH	Rockchem
BR1/B		374930	5350434	Bradshaws Road	Cda	Tuff	1737			0.18	5.51	30.00	-24.49	1	AJS	Rockchem
401090		380880	5356980	Bradshaws Road	Cdvt	Greywacke	1582			0.24	7.34	31.36	-24.02	1	JWH	Rockchem
401084		379600	5354840	Bradshaws Road	Cda	Breccia	1737			0.24	7.34	30.00	-22.66	1	JWH	Rockchem
401035		377420	5351720	Bradshaws Road	Cdsv	Siltstone	1581			0.33	10.10	30.31	-20.21	1	JWH	Rockchem
401068		377880	5352180	Bradshaws Road	Cdsv	Siltstone	1581			0.45	13.77	30.31	-16.54	1	JWH	Rockchem
T7		322600	5459600	Brittons Swamp	Lsd	Dolomite	40			0.09	2.75	90.00	-87.25	1		Rockchem
T8		323000	5459100	Brittons Swamp	Lsd	Dolomite	40			0.15	4.59	90.00	-85.41	1		Rockchem
WB19	6521	327720	5468810	Brittons Swamp	Cm	Breccia	1579			0.09	2.75	26.26	-23.51	1	JLE	Rockchem
32725B		385530	5385775	Bulgobac Hill	Cdv	Siltstone	1584			0.06	1.84	7.58	-5.74	1	PAS	Rockchem
32726B		385570	5385800	Bulgobac Hill	Cdv	Sandstone	1584			0.06	1.84	7.58	-5.74	1	PAS	Rockchem
32514		388051	5392193	Bulgobac Hill	Cdsv	Breccia	1581			0.82	25.09	30.31	-5.22	1	PAS	Rockchem
32730B		384780	5385000	Bulgobac Hill	Cdv	Breccia	1584			0.11	3.37	7.58	-4.21	1	PAS	Rockchem
38112		388130	5392338	Bulgobac Hill	Cdsv	Basalt	1581			0.96	29.38	30.31	-0.93	1	PAS	Rockchem
32748B		388987	5393637	Bulgobac Hill	Cdsv	Lava	1581			3.26	99.76	30.31	69.45	3	PAS	Rockchem
34834		377400	5379300	Burns Peak	Cdv	Lava	1584			0.25	7.65	7.58	0.07	2	PAS	Rockchem
34838		378235	5379100	Burns Peak	Cdv	Sandstone	1584			0.68	20.81	7.58	13.23	2	PAS	Rockchem
34888		377925	5379620	Burns Peak	Cdv	Schist	1584			2.80	85.68	7.58	78.10	3	PAS	Rockchem
34845		377815	5378900	Burns Peak	Cdv	Lava	1584			9.40	287.64	7.58	280.06	3	PAS	Rockchem
CRD86-1/A		403025	5405958	Cattley Range	Cdsv	Shale	1581			0.28	8.57	30.31	-21.74	1	AJS	Rockchem
NC498B		339600	5376800	Corinna area	Lac	Schist	31			0.07	2.14	69.46	-67.32	1	NJT	Rockchem
NC331		349700	5393300	Corinna area	Lat	Basalt	33			0.16	4.90	36.26	-31.36	1	NJT	Rockchem
84 114		413400	5385500	Cradle Mountain	Jd	Dolerite	6001			0.06	1.84	20.58	-18.74	1	JMH	Rockchem
84 115		413100	5385400	Cradle Mountain	Jd	Dolerite	6001			0.09	2.75	20.58	-17.83	1	JMH	Rockchem
33733		377900	5368100	Dallwitz prospect	Cds	Pumice	1572			0.54	16.52	27.56	-11.04	1	PAS	Rockchem
34046		380100	5372525	Dallwitz prospect	Cdv	Pumice	1584			1.36	41.62	7.58	34.04	3	PAS	Rockchem
31923		379300	5372100	Dalmeny prospect	Cdsv	Breccia	1581			0.06	1.84	30.31	-28.47	1	PAS	Rockchem
LFB 1770		249355	5562047	Dolphin mine	Lsv	Greywacke	41			0.08	2.45	38.22	-35.77	1		Rockchem
NC446		334400	5393600	Donaldson River area	Lrc	Sandstone	57			0.08	2.45	-1.49	3.94	2	NJT	Rockchem
NC447		334600	5394800	Donaldson River area	Lrc	Siltstone	57			0.14	4.28	-1.49	5.77	2	NJT	Rockchem
NC312B		343000	5399000	Donaldson River area	Lrc	Siltstone	57			0.33	10.10	-1.49	11.59	2	NJT	Rockchem
401346		339900	5469700	Edith Creek Road	Lsd	Dolomite	40			0.12	3.67	90.00	-86.33	1	RGR	Rockchem
84 267		592100	5387900	Fingal	Jd	Dolerite	6001			0.06	1.84	20.58	-18.74	1	JMH	Rockchem
401330		351523	5369111	Granville Road	Jd	Dolerite	6001			0.06	1.84	20.58	-18.74	1	RGR	Rockchem
401329		352073	5369027	Granville Road	Jd	Dolerite	6001			0.06	1.84	20.58	-18.74	1	RGR	Rockchem
401326		353804	5369549	Granville Road	Jd	Dolerite	6001			0.06	1.84	20.58	-18.74	1	RGR	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
401286		346900	5477600	Granville Road	Tb	Basalt	6501			0.07	2.14	18.77	-16.62	1	JWH	Rockchem
401325		354883	5367139	Granville Road	Lo	Wacke	10			0.06	1.84	18.20	-16.36	1	RGR	Rockchem
B6		424800	5434200	Gunns Plains Road	Tb	Basalt	6501			0.39	11.93	18.77	-6.83	1	RAS	Rockchem
HRC96-18		376282	5358197	Hellyer	Cdsv	Sandstone	1581			0.06	1.84	30.31	-28.47	1	AJS	Rockchem
HRC96-6		375630	5358187	Hellyer	Cdsv	Mudstone	1581			0.07	2.14	30.31	-28.17	1	AJS	Rockchem
MAC1/A		393096	5394852	Hellyer	Cqf	Basalt	1520			0.07	2.14	30.00	-27.86	1	AJS	Rockchem
HRC96-7		375719	5358452	Hellyer	Cdsv	Sandstone	1581			0.09	2.75	30.31	-27.56	1	AJS	Rockchem
HRC96-25		377152	5359819	Hellyer	Cdsv	Sandstone	1581			0.09	2.75	30.31	-27.56	1	AJS	Rockchem
MR435		394200	5395700	Hellyer	Cdsv	Rhyolite	1581			0.09	2.75	30.31	-27.56	1	KDC	Rockchem
HRC96-13		376085	5358457	Hellyer	Cdsv	Sandstone	1581			0.16	4.90	30.31	-25.41	1	AJS	Rockchem
HRC96-4		375528	5357860	Hellyer	Cdsv	Breccia	1581			0.17	5.20	30.31	-25.11	1	AJS	Rockchem
628426		391835	5396975	Hellyer	Cds	Basalt	1572			0.15	4.59	27.56	-22.97	1	RLF	Rockchem
214742		393756	5396741	Hellyer	Cdsv	Basalt	1581			0.25	7.65	30.31	-22.66	1	AB	Rockchem
HRC96-1		375175	5357850	Hellyer	Cdsv	Siltstone	1581			0.33	10.10	30.31	-20.21	1	AJS	Rockchem
HRC96-24		376703	5358140	Hellyer	Cdsv	Mudstone	1581			0.33	10.10	30.31	-20.21	1	AJS	Rockchem
MAC5/A		392966	5394958	Hellyer	Cqf	Andesite	1520			0.32	9.79	30.00	-20.21	1	AJS	Rockchem
HRC96-2		375422	5357870	Hellyer	Cdsv	Sandstone	1581			0.38	11.63	30.31	-18.68	1	AJS	Rockchem
401283		369000	5473500	Hellyer	Jd	Dolerite	6001			0.07	2.14	20.58	-18.44	1	JWH	Rockchem
HRC96-10		375855	5358453	Hellyer	Cdsv	Mudstone	1581			0.50	15.30	30.31	-15.01	1	AJS	Rockchem
HRC96-33		377473	5360335	Hellyer	Cdsv	Sandstone	1581			0.55	16.83	30.31	-13.48	1	AJS	Rockchem
334100		393117	5396732	Hellyer	Cdsv	Shale	1581			0.62	18.97	30.31	-11.34	1	DJ	Rockchem
HRC96-15		376138	5358366	Hellyer	Cdsv	Sandstone	1581			0.67	20.50	30.31	-9.81	1	AJS	Rockchem
HRC96-42		377970	5360683	Hellyer	Cdv	Breccia	1584			0.06	1.84	7.58	-5.74	1	AJS	Rockchem
P088		392900	5394400	Hellyer	Cdv	Dacite	1584			0.08	2.45	7.58	-5.13	1	KDC	Rockchem
HRC96-41		377847	5360441	Hellyer	Cdv	Breccia	1584			0.10	3.06	7.58	-4.52	1	AJS	Rockchem
214691		393196	5396593	Hellyer	Cds	Basalt	1572			0.78	23.87	27.56	-3.69	1	AB	Rockchem
628840		394444	5397185	Hellyer	Cdsv	Basalt	1581			0.92	28.15	30.31	-2.16	1	RLF	Rockchem
MAC10/E		391835	5396974	Hellyer	Cds	Sandstone	1572			0.85	26.01	27.56	-1.55	1	AJS	Rockchem
213927		393120	5396192	Hellyer	Cdb	Basalt	1736			1.00	30.60	23.00	7.60	2	AB	Rockchem
HRC96-28		377075	5360514	Hellyer	Cdsv	Sandstone	1581			1.24	37.94	30.31	7.63	2	AJS	Rockchem
214682		393444	5396484	Hellyer	Cds	Basalt	1572			1.20	36.72	27.56	9.16	2	AB	Rockchem
P211		392700	5395500	Hellyer	Cdv	Lava	1584			0.60	18.36	7.58	10.78	2	KDC	Rockchem
214650		393464	5396376	Hellyer	Cdb	Basalt	1736			1.20	36.72	23.00	13.72	2	AB	Rockchem
HC213764		393456	5397021	Hellyer	Cdsv	Andesite	1581			1.45	44.37	30.31	14.06	2	AB	Rockchem
HL80-103		393529	5395859	Hellyer	Cdb	Basalt	1736			1.24	37.94	23.00	14.94	2	JBG	Rockchem
213913		393175	5396385	Hellyer	Cdb	Basalt	1736			1.30	39.78	23.00	16.78	2	AB	Rockchem
HRC96-31		377280	5360509	Hellyer	Cdsv	Sandstone	1581			1.54	47.12	30.31	16.81	2	AJS	Rockchem
213878		393388	5396077	Hellyer	Cdb	Basalt	1736			1.65	50.49	23.00	27.49	3	AB	Rockchem
214661		393860	5396353	Hellyer	Cdb	Basalt	1736			1.90	58.14	23.00	35.14	3	AB	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
214718		393752	5396637	Hellyer	Cdsv	Basalt	1581			2.20	67.32	30.31	37.01	3	AB	Rockchem
213863		393460	5396161	Hellyer	Cdb	Basalt	1736			2.00	61.20	23.00	38.20	3	AB	Rockchem
213898		393048	5396244	Hellyer	Cdb	Basalt	1736			2.05	62.73	23.00	39.73	3	AB	Rockchem
214769		393473	5396804	Hellyer	Cdsv	Basalt	1581			2.40	73.44	30.31	43.13	3	AB	Rockchem
213868		393214	5395931	Hellyer	Cdb	Basalt	1736			2.20	67.32	23.00	44.32	3	AB	Rockchem
213852		393282	5396119	Hellyer	Cdb	Basalt	1736			2.30	70.38	23.00	47.38	3	AB	Rockchem
HRC96-45		378299	5361228	Hellyer	Cdv	Rhyolite	1584			2.08	63.65	7.58	56.07	3	AJS	Rockchem
334001		393565	5396550	Hellyer	Cds	Basalt	1572			2.77	84.76	27.56	57.20	3	AB	Rockchem
214704		393509	5396459	Hellyer	Cds	Basalt	1572			2.85	87.21	27.56	59.65	3	AB	Rockchem
214640		393297	5396336	Hellyer	Cdb	Basalt	1736			2.80	85.68	23.00	62.68	3	AB	Rockchem
214796		393749	5396854	Hellyer	Cdsv	Basalt	1581			3.50	107.10	30.31	76.79	3	AB	Rockchem
214680		393197	5396595	Hellyer	Cds	Basalt	1572			3.65	111.69	27.56	84.13	3	AB	Rockchem
213888		393224	5396033	Hellyer	Cdb	Basalt	1736			3.80	116.28	23.00	93.28	3	AB	Rockchem
212339		393706	5397021	Hellyer	Cdsv	Basalt	1581			4.30	131.58	30.31	101.27	3	AB	Rockchem
214785		393716	5396741	Hellyer	Cdsv	Basalt	1581			4.95	151.47	30.31	121.16	3	AB	Rockchem
215823		393131	5396542	Hellyer	Cds	Basalt	1572			5.35	163.71	27.56	136.15	3	AB	Rockchem
214759		393713	5396763	Hellyer	Cdsv	Basalt	1581			6.25	191.25	30.31	160.94	3	AB	Rockchem
213910		393105	5396305	Hellyer	Cdb	Basalt	1736			8.20	250.92	23.00	227.92	3	AB	Rockchem
214646		393123	5396528	Hellyer	Cds	Basalt	1572			9.05	276.93	27.56	249.37	3	AB	Rockchem
215697		393164	5396515	Hellyer	Cds	Basalt	1572			14.70	449.82	27.56	422.26	3	AB	Rockchem
30099		376590	5353200	Henty Fault	Cdsv	Rhyolite	1581			0.09	2.75	30.31	-27.56	1	PAS	Rockchem
HR126		374800	5350900	Henty River	Cda	Basalt	1737			0.08	2.45	30.00	-27.55	1	KDC	Rockchem
MRV10		374200	5351100	Henty River	Cda	Sandstone	1737			0.10	3.06	30.00	-26.94	1	KDC	Rockchem
HR47	5573	330760	5432180	Horton River	Lsb	Basalt	42			0.06	1.84	36.26	-34.42	1	JLE	Rockchem
401148		375220	5357835	Howards Road	Cdsv	Shale	1581			0.07	2.14	30.31	-28.17	1	JWH	Rockchem
401150		375560	5358030	Howards Road	Cdsv	Mudstone	1581			0.07	2.14	30.31	-28.17	1	JWH	Rockchem
401149		375250	5357860	Howards Road	Cdsv	Shale	1581			0.59	18.05	30.31	-12.26	1	JWH	Rockchem
C12Q		379470	5337650	Huxley Track	Cdvt	Sandstone	1582			0.12	3.67	31.36	-27.69	1	KDC	Rockchem
TJ2144	5171	332560	5438470	Julius River	Lsb	Basalt	42			0.07	2.14	36.26	-34.12	1	JLE	Rockchem
TJ3394	5123	333370	5440170	Julius River tributary	Lss	Dolomite	43			0.08	2.45	90.00	-87.55	1	JLE	Rockchem
A55		420500	5440500	Keddies Creek	Cdsv	Sandstone	1581			0.33	10.10	30.31	-20.21	1	RAS	Rockchem
KJ468	5434	368720	5437560	Keith River	Lat	Schist	33			0.06	1.84	36.26	-34.42	1	JLE	Rockchem
32497		378600	5369825	Koonya prospect	Cdv	Pumice	1584			0.21	6.43	7.58	-1.15	1	PAS	Rockchem
32491		378625	5370000	Koonya prospect	Cdv	Lava	1584			0.38	11.63	7.58	4.05	2	PAS	Rockchem
33719		378250	5370500	Koonya prospect	Cdv	Lava	1584			1.00	30.60	7.58	23.02	3	PAS	Rockchem
TJ2105	5169	333710	5435440	Lagunta Creek	Lsb	Basalt	42			0.06	1.84	36.26	-34.42	1	JLE	Rockchem
G7		427400	5433200	Lake Isandula	Cdsv	Sandstone	1581			0.11	3.37	30.31	-26.94	1	RAS	Rockchem
31375B		380340	5378890	Lake Rosebery	Cdv	Sandstone	1584			0.06	1.84	7.58	-5.74	1	JGP	Rockchem
31379B		378998	5378455	Lake Rosebery	Cdv	Dacite	1584			0.08	2.45	7.58	-5.13	1	JGP	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
32775B		377805	5378895	Lake Rosebery	Cdv	Dacite	1584			0.14	4.28	7.58	-3.29	1	JGP	Rockchem
31373B		377645	5379010	Lake Rosebery	Cdv	Siltstone	1584			0.92	28.15	7.58	20.57	3	JGP	Rockchem
624430		379304	5354657	Leech Hill	Cda	Andesite	1737			0.10	3.06	30.00	-26.94	1	AB	Rockchem
624429		379286	5354639	Leech Hill	Cda	Andesite	1737			0.14	4.28	30.00	-25.72	1	AB	Rockchem
MRV5		379600	5353200	Leech Hill	Cda	Andesite	1737			0.16	4.90	30.00	-25.10	1	KDC	Rockchem
624431		379371	5354703	Leech Hill	Cda	Andesite	1737			0.64	19.58	30.00	-10.42	1	AB	Rockchem
624434		379428	5354749	Leech Hill	Cda	Tuff	1737			2.12	64.87	30.00	34.87	3	AB	Rockchem
MJ151		333750	5426730	Leigh River	Lss	Dolomite	43			0.10	3.06	90.00	-86.94	1	JLE	Rockchem
LD86-1/D		364200	5404760	Luina	Cw	Basalt	1513			0.06	1.84	10.87	-9.03	1	AJS	Rockchem
401294		398400	5336800	Lyell Highway	Ol	Dolomite	3007			1.09	33.35	95.80	-62.44	1	RGR	Rockchem
KJ404	5429	365050	5433310	Lyons River	Lat	Schist	33			0.06	1.84	36.26	-34.42	1	JLE	Rockchem
562453		389163	5390570	Mackintosh District	Cdb	Dacite	1736			0.24	7.34	23.00	-15.66	1	AB	Rockchem
431568		389780	5391414	Mackintosh District	Cdv	Breccia	1584			15.30	468.18	7.58	460.60	3	AB	Rockchem
MR391		373400	5366800	Montezuma Falls	Cdsp	Lava	1598			0.09	2.75	38.87	-36.11	1	KDC	Rockchem
401219		373400	5367200	Montezuma track	Cdsp	Lava	1598			0.06	1.84	38.87	-37.03	1	JWH	Rockchem
216481		379414	5360780	Mt Julia	Cdvt	Dacite	1582			1.97	60.28	31.36	28.92	3	PAS	Rockchem
32767		381588	5375737	Mt Black	Cdv	Dacite	1584			0.07	2.14	7.58	-5.44	1	JGP	Rockchem
RED87+A513		379481	5377000	Mt Black	Cdv	Dacite	1584			0.09	2.75	7.58	-4.82	1	AJS	Rockchem
MBE96-8		381639	5373724	Mt Black	Cdv	Dacite	1584			0.13	3.98	7.58	-3.60	1	AJS	Rockchem
32786B		378024	5378679	Mt Black	Cdv	Sandstone	1584			0.32	9.79	7.58	2.21	2	JGP	Rockchem
19818		402000	5405500	Mt Cattley	Cdsv	Andesite	1581			0.06	1.84	30.31	-28.47	1	PAN	Rockchem
18706		402370	5410990	Mt Cattley	Cdsv	Siltstone	1581			0.12	3.67	30.31	-26.64	1	PAN	Rockchem
CRD86-1		403000	5405640	Mt Cattley	Cdsv	Shale	1581			0.14	4.28	30.31	-26.03	1	GVK	Rockchem
VK-174		400690	5414150	Mt Cattley	Cdsv	Siltstone	1581			0.18	5.51	30.31	-24.80	1	GVK	Rockchem
VK-031		401140	5404210	Mt Cattley	Cqf	Siltstone	1520			0.24	7.34	30.00	-22.66	1	GVK	Rockchem
19816		402030	5405995	Mt Cattley	Cdsv	Sandstone	1581			0.43	13.16	30.31	-17.15	1	PAN	Rockchem
MAC20		400750	5403324	Mt Cattley	Cqf	Breccia	1520			0.93	28.46	30.00	-1.54	1	GVK	Rockchem
VK-002		404420	5412010	Mt Cattley	Cdsv	Siltstone	1581			1.98	60.59	30.31	30.28	3	GVK	Rockchem
P218		389100	5391000	Mt Charter	Cdsq	Andesite	1739			0.08	2.45	21.30	-18.85	1	KDC	Rockchem
MC2A/A		388965	5390975	Mt Charter	Cdsq	Basalt	1739			0.15	4.59	21.30	-16.71	1	AJS	Rockchem
MC2A/D		388988	5391000	Mt Charter	Cdsq	Porphyry	1739			0.30	9.18	21.30	-12.12	1	KDC	Rockchem
P222		391500	5395200	Mt Charter	Cdv	Dacite	1584			0.07	2.14	7.58	-5.44	1	KDC	Rockchem
P194		389600	5392500	Mt Charter	Cdv	Andesite	1584			0.08	2.45	7.58	-5.13	1	KDC	Rockchem
MC1/A		389040	5391170	Mt Charter	Cdsq	Shale	1739			1.60	48.96	21.30	27.66	3	AJS	Rockchem
61425		383729	5386970	Mt Charter	Cdv	Lava	1584			2.95	90.27	7.58	82.69	3	EZ	Rockchem
58469		383698	5386379	Mt Charter	Cdv	Lava	1584			3.10	94.86	7.58	87.28	3	EZ	Rockchem
57830		383117	5385953	Mt Charter	Cdv	Basalt	1584			4.13	126.38	7.58	118.80	3	EZ	Rockchem
52946		383227	5386203	Mt Charter	Cdv	Dacite	1584			7.35	224.91	7.58	217.33	3	EZ	Rockchem
58352		383552	5386827	Mt Charter	Cdv	Lava	1584			28.90	884.34	7.58	876.76	3	EZ	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
401389		348250	5364970	Mt Heemskirk	Dga	Adamellite	4053			0.07	2.14	5.62	-3.48	1	RGR	Rockchem
JD2002/B		384300	5323400	Mt Jukes	Cdsv	Rhyolite	1581			0.45	13.77	30.31	-16.54	1	AJS	Rockchem
401305		383000	5331300	Mt Jukes Road	Cdv	Lava	1584			0.17	5.20	7.58	-2.38	1	RGR	Rockchem
B10140		383664	5330997	Mt Jukes Road	Cdv	Rhyolite	1584			1.00	30.60	7.58	23.02	3	WW	Rockchem
M9		383062	5373008	Mt Read	Cda	Dacite	1737			0.09	2.75	30.00	-27.25	1	CCG	Rockchem
MR96-61		376851	5366151	Mt Read	Cds	Breccia	1572			0.12	3.67	27.56	-23.89	1	AJS	Rockchem
MR96-97		382502	5365333	Mt Read	Cdv	Rhyolite	1584			0.12	3.67	7.58	-3.91	1	AJS	Rockchem
RE1/C		379700	5365425	Mt Read	Cdv	Dacite	1584			0.18	5.51	7.58	-2.07	1	AJS	Rockchem
MR96-49		376473	5367589	Mt Read	Cdv	Breccia	1584			0.24	7.34	7.58	-0.23	1	AJS	Rockchem
MR96-57		376471	5366647	Mt Read	Cdv	Breccia	1584			0.27	8.26	7.58	0.68	2	AJS	Rockchem
MR96-64		377068	5366308	Mt Read	Cdv	Breccia	1584			0.27	8.26	7.58	0.68	2	AJS	Rockchem
MR96-48		376526	5367568	Mt Read	Cdv	Breccia	1584			0.29	8.87	7.58	1.30	2	AJS	Rockchem
MR96-93		382289	5365250	Mt Read	Cdv	Slate	1584			0.38	11.63	7.58	4.05	2	AJS	Rockchem
MR96-56		376473	5366710	Mt Read	Cdv	Breccia	1584			0.45	13.77	7.58	6.19	2	AJS	Rockchem
MR96-53		376329	5367457	Mt Read	Cdv	Rhyolite	1584			0.72	22.03	7.58	14.45	2	AJS	Rockchem
WSP3/D		378391	5362496	Mt Read	Cdv	Andesite	1584			0.97	29.68	7.58	22.10	3	AJS	Rockchem
MR96-51		376330	5367642	Mt Read	Cdv	Breccia	1584			1.53	46.82	7.58	39.24	3	AJS	Rockchem
MR96-59		376451	5366165	Mt Read	Cdv	Slate	1584			1.69	51.71	7.58	44.14	3	AJS	Rockchem
MR96-59		376451	5366165	Mt Read	Cdv	Slate	1584			1.69	51.71	7.58	44.14	3	AJS	Rockchem
MR96-58		376369	5366056	Mt Read	Cdv	Rhyolite	1584			1.72	52.63	7.58	45.05	3	AJS	Rockchem
MR96-52		376325	5367547	Mt Read	Cdv	Rhyolite	1584			2.68	82.01	7.58	74.43	3	AJS	Rockchem
MR96-50		376414	5367654	Mt Read	Cdv	Breccia	1584			3.26	99.76	7.58	92.18	3	AJS	Rockchem
B2035		383635	5319158	Mt Darwin	Cdsv	Rhyolite	1581			0.10	3.06	30.31	-27.25	1	WW	Rockchem
401121		387560	5374600	Murchison Dam Road	Cdq	Lava	1738			0.06	1.84	30.00	-28.16	1	JWH	Rockchem
34227		385999	5376285	Murchison Dam Road	Cdq	Schist	1738			0.10	3.06	30.00	-26.94	1	PAS	Rockchem
401102		387960	5373500	Murchison Dam Road	Cgr	Granodiorite	1504			0.16	4.90	31.00	-26.10	1	JWH	Rockchem
401055		385550	5376500	Murchison Dam Road	Cds	Slate	1572			0.08	2.45	27.56	-25.11	1	JWH	Rockchem
34224		385930	5376385	Murchison Dam Road	Cdq	Shale	1738			0.16	4.90	30.00	-25.10	1	PAS	Rockchem
401063		387290	5375520	Murchison Dam Road	Cdq	Lava	1738			0.18	5.51	30.00	-24.49	1	JWH	Rockchem
401123		387360	5374900	Murchison Dam Road	Cdq	Lava	1738			0.24	7.34	30.00	-22.66	1	JWH	Rockchem
401059		385860	5376280	Murchison Dam Road	Cdq	Conglomerate	1738			0.30	9.18	30.00	-20.82	1	JWH	Rockchem
401124		387020	5375320	Murchison Dam Road	Cdq	Lava	1738			0.48	14.69	30.00	-15.31	1	JWH	Rockchem
401233		384540	5389820	Murchison Highway	Cdsv	Sandstone	1581			0.06	1.84	30.31	-28.47	1	JWH	Rockchem
401236		385450	5389940	Murchison Highway	Cdsv	Mudstone	1581			0.09	2.75	30.31	-27.56	1	JWH	Rockchem
401196		383200	5372980	Murchison Highway	Cda	Lava	1737			0.09	2.75	30.00	-27.25	1	JWH	Rockchem
401203		383760	5373840	Murchison Highway	Cda	Lava	1737			0.09	2.75	30.00	-27.25	1	JWH	Rockchem
401205		384070	5374500	Murchison Highway	Cda	Tuff	1737			0.10	3.06	30.00	-26.94	1	JWH	Rockchem
401199		383430	5373420	Murchison Highway	Cda	Amphibolite	1737			0.11	3.37	30.00	-26.63	1	JWH	Rockchem
401206		385400	5375820	Murchison Highway	Cds	Lava	1572			0.22	6.73	27.56	-20.83	1	JWH	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
401337		369350	5371140		Ldv	Siltstone	35			0.07	2.14	9.80	-7.66	1	RGR	Rockchem
401338		371240	5371420	Murchison Highway	Ldv	Greywacke	35			0.10	3.06	9.80	-6.74	1	RGR	Rockchem
401208		385360	5380100	Murchison Highway	Cdv	Lava	1584			0.06	1.84	7.58	-5.74	1	JWH	Rockchem
401009		383460	5382230	Murchison Highway	Cdv	Lava	1584			0.12	3.67	7.58	-3.91	1	JWH	Rockchem
401244		388040	5391650	Murchison Highway	Cdsq	Greywacke	1739			0.63	19.28	21.30	-2.02	1	JWH	Rockchem
401220		378630	5373180	Murchison Highway	Cdv	Lava	1584			0.25	7.65	7.58	0.07	2	JWH	Rockchem
401336		368360	5370350	Murchison Highway	Ldv	Greywacke	35			0.61	18.67	9.80	8.87	2	RGR	Rockchem
34215		385770	5376520	Murchison mine	Cds	Siltstone	1572			0.36	11.02	27.56	-16.54	1	PAS	Rockchem
31499		380350	5360000	Newton Creek	Cdvt	Lava	1582			0.67	20.50	31.36	-10.86	1	PAS	Rockchem
31497		380680	5357400	Newton Creek	Cdvt	Andesite	1582			1.31	40.09	31.36	8.73	2	PAS	Rockchem
F7		416300	5437100	North Motton	Cdsv	Basalt	1581			0.41	12.55	30.31	-17.76	1	RAS	Rockchem
401114		381160	5380300	Pieman Road	Cdv	Lava	1584			0.06	1.84	7.58	-5.74	1	JWH	Rockchem
401108		382990	5381000	Pieman Road	Cdv	Lava	1584			0.06	1.84	7.58	-5.74	1	JWH	Rockchem
401118		380480	5380200	Pieman Road	Cdv	Tuff	1584			0.08	2.45	7.58	-5.13	1	JWH	Rockchem
401117		380700	5380230	Pieman Road	Cdv	Lava	1584			0.14	4.28	7.58	-3.29	1	JWH	Rockchem
401167		377800	5378930	Pieman Road	Cdv	Lava	1584			0.17	5.20	7.58	-2.38	1	JWH	Rockchem
401162		379240	5380100	Pieman Road	Cdv	Lava	1584			0.40	12.24	7.58	4.66	2	JWH	Rockchem
Preston		427500	5439100	Preston Road	Cdsv	Sandstone	1581			0.09	2.75	30.31	-27.56	1	RAS	Rockchem
401278		393520	5394940	Que River	Cdsv	Tuff	1581			0.06	1.84	30.31	-28.47	1	JWH	Rockchem
401274		393250	5394770	Que River	Cqf	Lava	1520			0.09	2.75	30.00	-27.25	1	JWH	Rockchem
401281		393680	5395240	Que River	Cdsv	Greywacke	1581			0.12	3.67	30.31	-26.64	1	JWH	Rockchem
HAT5/A		390233	5396193	Que River	Cds	Andesite	1572			0.14	4.28	27.56	-23.28	1	AJS	Rockchem
401277		393400	5394920	Que River	Cdsv	Tuff	1581			0.23	7.04	30.31	-23.27	1	JWH	Rockchem
P199		393000	5394400	Que River	Cdv	Dacite	1584			0.08	2.45	7.58	-5.13	1	KDC	Rockchem
P196		392500	5394400	Que River	Cdv	Basalt	1584			0.09	2.75	7.58	-4.82	1	KDC	Rockchem
P149		391500	5393300	Que River	Cdv	Andesite	1584			0.20	6.12	7.58	-1.46	1	KDC	Rockchem
401267		392680	5394450	Que River	Cdv	Lava	1584			0.24	7.34	7.58	-0.23	1	JWH	Rockchem
401264		391560	5393920	Que River	Cdv	Tuff	1584			0.26	7.96	7.58	0.38	2	JWH	Rockchem
QR13		389450	5393800	Que River	Cdb	Shale	1736			0.82	25.09	23.00	2.09	2	CEG	Rockchem
QR1001/B		391107	5394102	Que River	Cdb	Andesite	1736			1.00	30.60	23.00	7.60	2	AJS	Rockchem
401270		393000	5394450	Que River	Cdv	Lava	1584			0.54	16.52	7.58	8.95	2	JWH	Rockchem
HAT4-141		389965	5394752	Que River	Cds	Shale	1572			1.22	37.33	27.56	9.77	2	JBG	Rockchem
401275		393240	5394840	Que River	Cqf	Shale	1520			1.76	53.86	30.00	23.86	2	JWH	Rockchem
QR1		390080	5396200	Que River	Cds	Shale	1572			1.71	52.33	27.56	24.77	3	CEG	Rockchem
QR11		389850	5395850	Que River	Cds	Shale	1572			2.24	68.54	27.56	40.98	3	CEG	Rockchem
QR6		389650	5394600	Que River	Cdsv	Shale	1581			2.53	77.42	30.31	47.11	3	CEG	Rockchem
QR97/G		391270	5394026	Que River	Cdb	Andesite	1736			2.30	70.38	23.00	47.38	3	AJS	Rockchem
QR97/F		391270	5394026	Que River	Cdb	Andesite	1736			3.00	91.80	23.00	68.80	3	AJS	Rockchem
401276		393320	5394920	Que River	Cdsv	Shale	1581			3.73	114.14	30.31	83.83	3	JWH	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
321402		389951	5396407	Que River	Cds	Basalt	1572			10.43	319.16	27.56	291.60	3	PLA	Rockchem
NC520		345090	5378800	Reece Dam	Lac	Basalt	31			0.25	7.65	69.46	-61.81	1	NJT	Rockchem
NC516		343890	5379500	Reece Dam	Lma	Amphibolite	32			0.06	1.84	32.34	-30.50	1	NJT	Rockchem
N358		344300	5379500	Reece Dam	Lma	Amphibolite	32			0.07	2.14	32.34	-30.20	1	NJT	Rockchem
NC513		343500	5379300	Reece Dam	Lma	Amphibolite	32			0.08	2.45	32.34	-29.89	1	NJT	Rockchem
NC493		343700	5379200	Reece Dam	Lma	Amphibolite	32			0.09	2.75	32.34	-29.59	1	NJT	Rockchem
NC482		349000	5389800	Rocky River	Lac	Basalt	31			1.30	39.78	69.46	-29.68	1	NJT	Rockchem
NC487		349400	5389300	Rocky River	Lma	Amphibolite	32			0.20	6.12	32.34	-26.22	1	NJT	Rockchem
32499		379045	5374500	Rosebery	Cdsv	Lava	1581			0.07	2.14	30.31	-28.17	1	PAS	Rockchem
7(1)		420300	5441300	Rosebery	Cdsv	Basalt	1581			0.42	12.85	30.31	-17.46	1	RAS	Rockchem
BP273/C		378124	5373102	Rosebery	Cdsv	Shale	1581			0.43	13.16	30.31	-17.15	1	AJS	Rockchem
8 (1)		420900	5442000	Rosebery	Cda	Dacite	1737			0.55	16.83	30.00	-13.17	1	RAS	Rockchem
BD269/B		377732	5377378	Rosebery	Cdsv	Shale	1581			0.58	17.75	30.31	-12.56	1	AJS	Rockchem
30386		379450	5373650	Rosebery	Cdv	Lava	1584			0.12	3.67	7.58	-3.91	1	PAS	Rockchem
DP288/C		378423	5369126	Rosebery	Cdv	Rhyolite	1584			0.13	3.98	7.58	-3.60	1	AJS	Rockchem
H955/B		376385	5367860	Rosebery	Cdv	Rhyolite	1584			0.19	5.81	7.58	-1.76	1	AJS	Rockchem
33706		379550	5373400	Rosebery	Cdv	Lava	1584			0.35	10.71	7.58	3.13	2	PAS	Rockchem
33708		380000	5373400	Rosebery	Cdv	Lava	1584			0.49	14.99	7.58	7.42	2	PAS	Rockchem
31909		379000	5371425	Rosebery	Cdv	Schist	1584			0.64	19.58	7.58	12.01	2	PAS	Rockchem
BP272/D		377946	5372803	Rosebery	Cdsv	Shale	1581			1.50	45.90	30.31	15.59	2	AJS	Rockchem
31917		379250	5371650	Rosebery	Cdsv	Shale	1581			1.54	47.12	30.31	16.81	2	PAS	Rockchem
71R/B		378834	5376396	Rosebery	Cdv	Shale	1584			1.10	33.66	7.58	26.08	3	AJS	Rockchem
80R/E		379418	5375659	Rosebery	Cdv	Shale	1584			2.50	76.50	7.58	68.92	3	AJS	Rockchem
NC291		347500	5401300	Savage River	Lac	Basalt	31			0.08	2.45	9.46	-7.01	2	NJT	Rockchem
NC69		349400	5404800	Savage River	Lma	Amphibolite	32			1.95	59.67	32.34	27.33	3	NJT	Rockchem
SM165		433700	5418200	Sheffield area	Cdsv	Andesite	1581			0.12	3.67	30.31	-26.64	1	MPM	Rockchem
903840		339680	5476588	Smithton	Lsd	Dolomite	40			0.06	1.84	90.00	-88.16	1	VTH	Rockchem
1055656		341140	5473062	Smithton	Lsd	Dolomite	40			0.08	2.45	90.00	-87.55	1	CRA	Rockchem
1055658		339675	5463775	Smithton	Lsd	Dolomite	40			0.09	2.75	90.00	-87.25	1	CRA	Rockchem
1055657		340210	5470610	Smithton	Lsd	Dolomite	40			0.12	3.67	90.00	-86.33	1	CRA	Rockchem
1055653		339720	5475490	Smithton	Lsd	Dolomite	40			0.18	5.51	90.00	-84.49	1	CRA	Rockchem
31296		386370	5392710	Sock Creek	Cqf	Porphyry	1520			0.07	2.14	30.00	-27.86	1	DGB	Rockchem
P210		386600	5392800	Sock Creek	Cqf	Porphyry	1520			0.07	2.14	30.00	-27.86	1	KDC	Rockchem
31269		386208	5392496	Sock Creek	Cqf	Porphyry	1520			0.16	4.90	30.00	-25.10	1	DGB	Rockchem
DBS22		388010	5392360	Sock Creek	Cdsv	Basalt	1581			0.23	7.04	30.31	-23.27	1	DGB	Rockchem
31285		386088	5392501	Sock Creek	Cds	Breccia	1572			0.21	6.43	27.56	-21.13	1	DGB	Rockchem
P209		386800	5392800	Sock Creek	Cdv	Rhyolite	1584			0.07	2.14	7.58	-5.44	1	KDC	Rockchem
32721		385980	5393040	Sock Creek	Cds	Shale	1572			1.17	35.80	27.56	8.24	2	PAS	Rockchem
401317A		356800	5347900	Strahan-Zeehan Highway	Tc	Chert	6552			1.00	30.60	16.26	14.34	2	RGR	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
401021		348200	5356720	Trial Harbour	Lo	Hornfels	10			0.12	3.67	18.20	-14.53	1	JWH	Rockchem
401020		348520	5356440	Trial Harbour	Csd	Serpentinite	1591			0.14	4.28	16.26	-11.98	1	JWH	Rockchem
401017		348470	5356380	Trial Harbour	Csd	Serpentinite	1591			0.19	5.81	16.26	-10.45	1	JWH	Rockchem
401022		348070	5356620	Trial Harbour	Lo	Hornfels	10			1.02	31.21	18.20	13.01	2	JWH	Rockchem
401318		359379	5361797	Trial Harbour Road	Lo	Wacke	10			0.23	7.04	18.20	-11.16	1	RGR	Rockchem
401186		387649	5383320	Tullabardine	Cds	Greywacke	1572			0.22	6.73	27.56	-20.83	1	JWH	Rockchem
401183		386540	5380700	Tullabardine	Cdv	Tuff	1584			0.10	3.06	7.58	-4.52	1	JWH	Rockchem
624204		379716	5358238	Tyndall Mine	Cdv	Andesite	1584			0.40	12.24	7.58	4.66	2	AB	Rockchem
31584		377205	5360425	Whip Spur	Cdsv	Siltstone	1581			0.48	14.69	30.31	-15.62	1	PAS	Rockchem
C23Q		382000	5336300	Whip Spur	Cdv	Rhyodacite	1584			0.14	4.28	7.58	-3.29	1	KDC	Rockchem
401210		377800	5372280	Williamsford	Cdsv	Breccia	1581			0.38	11.63	30.31	-18.68	1	JWH	Rockchem
401214		376700	5370000	Williamsford	Cdv	Lava	1584			0.20	6.12	7.58	-1.46	1	JWH	Rockchem
401213		376720	5370360	Williamsford	Cdv	Conglomerate	1584			0.24	7.34	7.58	-0.23	1	JWH	Rockchem
278	5648	430573	5418000	Wilmot	Cds	Dacite	1572			0.74	22.64	27.56	-4.92	1	DCG	Rockchem
388	5657	430362	5417720	Wilmot	Cds	Rhyolite	1572			0.91	27.85	27.56	0.29	2	DCG	Rockchem
167a	7387	425103	5419250	Wilmot	Cds	Rhyolite	1572			0.93	28.46	27.56	0.90	2	DCG	Rockchem
345	7392	428999	5418100	Wilmot	Cds	Rhyolite	1572			1.01	30.91	27.56	3.35	2	DCG	Rockchem
327	7391	428631	5410125	Wilmot	Cdv	Dacite	1584			0.39	11.93	7.58	4.36	2	DCG	Rockchem
162	7386	426332	5418874	Wilmot	Cds	Rhyolite	1572			1.17	35.80	27.56	8.24	2	DCG	Rockchem
293	5623	429018	5410980	Wilmot	Cdv	Rhyolite	1584			0.74	22.64	7.58	15.07	2	DCG	Rockchem
294	5620	429534	5410932	Wilmot	Cdv	Rhyolite	1584			0.74	22.64	7.58	15.07	2	DCG	Rockchem
300	5625	429682	5411332	Wilmot	Cdv	Rhyolite	1584			0.76	23.26	7.58	15.68	2	DCG	Rockchem
289	5603	428704	5410414	Wilmot	Cdv	Rhyolite	1584			0.77	23.56	7.58	15.98	2	DCG	Rockchem
157	7385	425952	5418903	Wilmot	Cds	Rhyolite	1572			1.91	58.45	27.56	30.89	3	DCG	Rockchem
169	7389	426099	5419327	Wilmot	Cds	Rhyolite	1572			1.98	60.59	27.56	33.03	3	DCG	Rockchem
416	5665	428395	5410073	Wilmot	Cdv	Rhyolite	1584			1.46	44.68	7.58	37.10	3	DCG	Rockchem
297	7390	429591	5411217	Wilmot	Cdv	Rhyolite	1584			1.86	56.92	7.58	49.34	3	DCG	Rockchem
167b	7388	426101	5418652	Wilmot	COu	Siltstone	2501			2.35	71.91	4.81	67.10	3	DCG	Rockchem
J437		418800	5409380	Winterbrook Moina	Cda	Dacite	1737			0.06	1.84	30.00	-28.16	1	JP	Rockchem
V371		412800	5411490	Winterbrook Moina	Cdvt	Basalt	1582			0.12	3.67	31.36	-27.69	1	MJV	Rockchem
J457		420900	5409490	Winterbrook Moina	Cda	Dacite	1737			0.08	2.45	30.00	-27.55	1	JP	Rockchem
J413		418000	5409300	Winterbrook Moina	Cda	Dacite	1737			0.10	3.06	30.00	-26.94	1	JP	Rockchem
J373		415900	5413100	Winterbrook Moina	Cda	Dacite	1737			0.11	3.37	30.00	-26.63	1	JP	Rockchem
J461		421200	5409490	Winterbrook Moina	Cda	Dacite	1737			0.11	3.37	30.00	-26.63	1	JP	Rockchem
J544		415200	5407600	Winterbrook Moina	Cda	Basalt	1737			0.14	4.28	30.00	-25.72	1	JP	Rockchem
V517		413500	5407900	Winterbrook Moina	COd	Dolerite	2528			0.06	1.84	20.50	-18.66	1	MJV	Rockchem
J439		418800	5409850	Winterbrook Moina	Tb	Basalt	6501			0.06	1.84	18.77	-16.93	1	JP	Rockchem
V622		426000	5404500	Winterbrook Moina	Cdv	Porphyry	1584			0.13	3.98	7.58	-3.60	1	MJV	Rockchem
C1736		383400	5423900	Wynyard	Tb	Basalt	6501			1.61	49.27	18.77	30.50	3	AVB	Rockchem

FIELD NO	REG_NO	AMGE	AMGN	LOCALITY	GEOLOGY	LITHOLOGY	RCODE	pH	EC	TS	MPA	ANC	NAPP	GCLASS	ORIG	SOURCE
MB96-20		386256	5373860		Cdq	Rhyolite	1738			0.06	1.84	30.00	-28.16	1	AJS	Rockchem
MB96-26		385909	5374628		Cdq	Rhyolite	1738			0.07	2.14	30.00	-27.86	1	AJS	Rockchem
MB96-14		387191	5375164		Cdq	Rhyolite	1738			0.08	2.45	30.00	-27.55	1	AJS	Rockchem
MB96-31		385528	5374332		Cdq	Basalt	1738			0.11	3.37	30.00	-26.63	1	AJS	Rockchem
MB96-32		385492	5374497		Cdq	Rhyolite	1738			0.12	3.67	30.00	-26.33	1	AJS	Rockchem
MB96-6		388365	5374157		Cgr	Granodiorite	1504			0.19	5.81	31.00	-25.19	1	AJS	Rockchem
MB96-19		386304	5373732		Cdq	Rhyolite	1738			0.22	6.73	30.00	-23.27	1	AJS	Rockchem
MR96-115		386313	5364418		Cdq	Schist	1738			0.24	7.34	30.00	-22.66	1	AJS	Rockchem
MB96-24		385932	5374415		Cdq	Basalt	1738			0.39	11.93	30.00	-18.07	1	AJS	Rockchem
MB96-27		385891	5374778		Cdq	Granite	1738			0.43	13.16	30.00	-16.84	1	AJS	Rockchem
MB96-1		388636	5374583		Cgr	Granite	1504			0.68	20.81	31.00	-10.19	1	AJS	Rockchem
M39		381537	5372096		Cdv	Dacite	1584			0.06	1.84	7.58	-5.74	1	CCG	Rockchem
M39		381537	5372096		Cdv	Dacite	1584			0.06	1.84	7.58	-5.74	1	CCG	Rockchem
M10		382788	5373212		Cdv	Dacite	1584			0.06	1.84	7.58	-5.74	1	CCG	Rockchem
MB96-25		385916	5374619		Cdq	Rhyolite	1738			0.81	24.79	30.00	-5.21	1	AJS	Rockchem
M33		382041	5372328		Cdv	Dacite	1584			0.10	3.06	7.58	-4.52	1	CCG	Rockchem
M45		381432	5372038		Cdv	Sandstone	1584			0.11	3.37	7.58	-4.21	1	CCG	Rockchem
M24		382692	5373317		Cdv	Dacite	1584			0.11	3.37	7.58	-4.21	1	CCG	Rockchem
HAT9-118		391509	5396626		Cds	Dacite	1572			0.79	24.17	27.56	-3.39	1	JBG	Rockchem
MJ96-13		381700	5331550		Cdv	Breccia	1584			0.28	8.57	7.58	0.99	2	WW	Rockchem
HL541-306		392159	5396691		Cdsv	Shale	1581			1.89	57.83	30.31	27.52	3	JBG	Rockchem
MAC31-78		391391	5397118		Cds	Shale	1572			1.92	58.75	27.56	31.19	3	JBG	Rockchem
HL26-286		393309	5396674		Cdsv	Andesite	1581			6.70	205.02	30.31	174.71	3	JBG	Rockchem

FIELD NO.	LOCALITY	Als	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
E201241	All Nations mine	20.00	8.00	5.00	6.00	25.00	9.00	24.00	22.00	90.60	0.50	0.20	4.80	0.00	0.00	0.10	0.00	0.40	0.00
E201167	Anchor mine	20.00	8.00	1550.00	9.00	27.00	1350.00	26.00	260.00	76.10	5.00	0.00	12.40	0.20	0.00	0.30	0.00	1.60	0.20
E201166	Anchor mine	20.00	8.00	330.00	8.00	20.00	830.00	105.00	420.00	76.20	5.90	0.00	16.30	0.30	0.00	0.50	0.20	4.40	0.30
E201119	Argent 4 Zeehan	600.00	8.00	2600.00	9.00	87100.00	4700.00	10.00	950.00	41.10	9.20	0.10	2.60	0.00	0.80	0.10	1.80	0.40	0.10
E201284	Austral Smelter site	450.00	8.00	1200.00	23.00	5500.00	50.00	185.00	69100.00	2.60	0.40	15.40	0.10	3.20	1.60	29.50	3.80	0.50	0.10
E201106	Austral Smelter site	20.00	9.00	5.00	15.00	17.00	9.00	10.00	40.00	88.60	5.00	2.00	0.30	0.00	0.50	0.40	0.00	1.00	0.00
E201285	Austral Smelter site	460.00	18.00	2200.00	83.00	15400.00	390.00	120.00	64200.00	20.40	3.40	27.70	0.20	5.60	2.90	8.60	7.40	0.60	0.30
E201311	Austral tailings	12700.00	15.00	780.00	5.00	6900.00	9.00	10.00	5900.00	8.60	41.00	0.10	2.00	0.10	1.80	0.30	2.90	1.00	0.30
E201309	Austral tailings	2500.00	8.00	1500.00	16.00	14100.00	11.00	20.00	32100.00	35.70	18.30	0.30	14.20	2.40	3.00	2.00	2.60	2.90	0.10
E201310	Austral tailings	3200.00	8.00	3300.00	10.00	4900.00	9.00	55.00	24300.00	38.10	19.90	0.20	20.40	0.10	1.30	0.10	2.10	1.10	0.30
E201338	Badger Corner	20.00	8.00	9.00	13.00	15.00	9.00	10.00	28.00	72.40	2.50	0.40	9.70	0.00	1.10	0.60	1.40	2.10	0.10
E201339	Badger Corner	20.00	8.00	8.00	8.00	13.00	9.00	10.00	14.00	69.40	2.20	0.40	7.00	0.00	0.70	0.20	1.00	2.10	0.00
E201336	Badger Head	20.00	8.00	6.00	11.00	16.00	9.00	10.00	16.00	72.60	2.00	0.30	8.70	0.00	1.10	0.60	1.30	2.50	0.10
E201236	Balfour	20.00	8.00	300.00	12.00	18.00	10.00	10.00	35.00	82.30	2.60	0.40	14.10	0.00	4.70	0.00	0.00	2.40	0.10
E201234	Balfour	70.00	26.00	102500.00	25.00	11.00	31.00	160.00	5.00	63.90	4.50	0.10	1.10	0.00	0.80	0.00	1.70	0.20	0.10
E201104	Balfour	135.00	48.00	138600.00	35.00	35.00	41.00	210.00	5.00	54.90	7.00	0.10	1.60	0.00	0.90	0.00	3.40	0.40	0.10
E201105	Balfour	1100.00	590.00	81900.00	70.00	27.00	26.00	115.00	5.00	56.40	12.50	0.10	1.30	0.00	0.80	0.00	2.10	0.30	0.10
E201235	Balfour	210.00	8.00	280000.00	19.00	53.00	83.00	430.00	5.00	5.50	10.30	0.00	1.00	0.00	2.00	0.00	6.40	0.00	0.30
E201233	Balfour	58.00	14.00	250000.00	28.00	12.00	115.00	340.00	5.00	8.30	16.80	0.00	0.20	0.00	2.20	0.10	6.10	0.00	0.20
E201316	Bangor quarry-1	20.00	8.00	48.00	12.00	18.00	9.00	10.00	16.00	76.60	2.50	0.60	15.10	0.00	1.00	0.00	0.20	3.60	0.00
E201317	Bangor quarry-1	20.00	8.00	14.00	13.00	23.00	9.00	10.00	16.00	74.60	1.40	0.70	16.10	0.00	1.10	0.00	0.10	4.40	0.00
E201318	Bangor quarry-2	20.00	8.00	64.00	20.00	20.00	9.00	10.00	60.00	73.10	4.70	0.70	16.90	0.00	1.60	0.00	0.40	4.30	0.00
E201333	Big River Road	59.00	8.00	7.00	8.00	13.00	9.00	10.00	10.00	60.70	8.00	0.20	10.50	0.00	0.50	0.00	0.70	1.80	0.00
E201237	Bismuth Creek pit	20.00	8.00	38.00	7.00	10.00	9.00	15.00	24.00	73.40	0.80	1.00	21.60	0.00	0.60	0.00	0.00	5.80	0.00
E201238	Bismuth Creek pit	20.00	8.00	17.00	6.00	10.00	9.00	12.00	22.00	83.30	0.60	0.30	6.70	0.00	0.00	0.00	0.00	1.70	0.00
E201164	Blue Tier	20.00	8.00	5.00	8.00	33.00	9.00	10.00	51.00	70.90	2.20	0.20	14.20	0.00	0.50	1.70	2.40	4.40	0.10
E201108	Blythe River	20.00	8.00	5.00	8.00	15.00	9.00	10.00	37.00	80.50	1.40	0.10	12.70	0.00	0.00	0.50	2.60	5.00	0.00
E201107	Blythe River	20.00	8.00	8.00	9.00	22.00	9.00	10.00	61.00	77.40	2.00	0.10	13.40	0.00	0.00	0.10	0.00	4.50	0.00
E201323	Briseis mine, Derby	20.00	8.00	7.00	5.00	18.00	10.00	10.00	39.00	71.00	1.70	0.00	12.10	0.00	0.10	0.40	2.10	5.10	0.00
E201325	Cannes Hill	20.00	8.00	8.00	5.00	23.00	9.00	10.00	23.00	74.50	1.50	0.20	13.00	0.00	0.40	0.50	1.90	5.10	0.10
E201326	Cannes Hill	20.00	8.00	5.00	5.00	29.00	9.00	10.00	10.00	59.30	0.60	0.20	17.10	0.00	0.20	0.00	2.90	5.60	0.00
E201109	Cethana	20.00	8.00	5.00	16.00	10.00	9.00	10.00	93.00	72.50	4.90	0.50	14.20	0.10	2.00	1.30	2.90	3.70	0.10
E201239	Cethana	20.00	11.00	15.00	16.00	10.00	9.00	10.00	24.00	88.40	1.50	0.40	7.70	0.00	0.20	0.00	0.00	1.90	0.00
E201312	Cethana Dam Road	20.00	8.00	7.00	7.00	10.00	9.00	10.00	5.00	79.10	2.60	0.20	4.20	0.00	0.30	0.00	0.10	1.10	0.00
E201120	Comstock-Zeehan	1600.00	8.00	200.00	15.00	21900.00	68.00	185.00	95100.00	20.60	20.20	0.00	0.10	0.40	2.70	0.10	9.20	0.00	0.10
E201278	Comstock-Zeehan	2800.00	8.00	48.00	8.00	4000.00	9.00	10.00	510.00	19.40	30.50	0.10	2.10	0.20	3.60	0.10	3.70	0.10	0.10
E201321	Endurance mine	20.00	8.00	6.00	6.00	10.00	9.00	10.00	5.00	78.20	0.60	0.10	4.70	0.00	0.00	0.00	0.10	0.00	0.00
E201322	Endurance mine	20.00	8.00	5.00	5.00	10.00	9.00	10.00	10.00	70.10	12.20	0.10	1.00	0.00	0.30	0.00	0.70	0.00	0.00
E201169	Endurance mine	20.00	10.00	5.00	5.00	10.00	10.00	10.00	74.00	9.00	0.30	40.10	0.00	0.00	1.20	0.10	4.00	0.30	0.20
E201170	Endurance mine	45.00	12.00	5.00	5.00	10.00	9.00	12.00	78.00	15.20	8.50	39.40	0.60	0.00	1.20	0.10	4.20	0.30	0.20

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
E201351	Five Mile Road	20.00	20.00		14.00	10.00	9.00		20.00	2.80	3.00	0.10	0.30	0.00	1.70	80.80	2.00	0.00	0.00
E201282	Florence-Zeehan	170.00	8.00	380.00	25.00	113000.00	82.00		37300.00	1.80	19.80	0.00	0.30	4.40	2.90	0.20	5.40	0.10	0.20
E201332	Furneaux Quarry	20.00	8.00	9.00	5.00	21.00	9.00	10.00	54.00	68.10	1.60	0.10	12.10	0.00	0.30	0.40	2.80	4.80	0.00
E201331	Furneaux Quarry	20.00	8.00	9.00	5.00	25.00	9.00	10.00	5.00	74.10	0.70	0.10	12.20	0.00	0.10	0.30	2.00	5.00	0.00
E201330	Furneaux Quarry	20.00	8.00	5.00	5.00	25.00	9.00	10.00	5.00	69.60	0.40	0.00	13.40	0.00	0.00	0.20	2.40	5.10	0.00
E201179	Grassy	62.00	10.00	5.00	19.00	16.00	9.00	7500.00	55.00	55.60	3.40	0.30	17.90	0.20	3.00	8.40	4.60	0.90	0.20
E201180	Grassy	20.00	82.00	5.00	1100.00	10.00	9.00	10.00	69.00	49.90	9.80	0.30	11.40	0.10	21.10	8.70	1.10	0.80	0.10
E201181	Grassy	20.00	8.00	17.00	21.00	21.00	9.00	10.00	95.00	68.40	6.20	0.80	20.90	0.00	2.60	0.20	0.70	5.10	0.10
E201344	Gravel pit	20.00	14.00		13.00	12.00	9.00		24.00	3.50	1.30	0.10	0.40	0.00	1.70	80.20	1.90	0.10	0.10
E201343	Gravel pit	20.00	8.00	12.00	5.00	34.00	9.00	10.00	18.00	71.60	0.90	0.00	12.90	0.00	0.00	0.20	2.20	6.00	0.00
E201163	Garibaldi road	20.00	8.00	5.00	9.00	31.00	9.00	10.00	57.00	66.70	2.20	0.20	13.20	0.10	0.40	1.30	2.10	4.30	0.10
E201324	Hays Hill gravel pit	20.00	8.00	8.00	6.00	23.00	9.00	10.00	43.00	68.70	2.60	0.30	12.60	0.00	0.50	1.20	1.80	4.60	0.10
E201261	Hellyer	1150.00	23.00	1400.00	25.00	45300.00	45.00	38.00	81000.00	27.80	8.70	0.10	4.50	0.10	1.70	3.90	6.20	0.80	0.10
E201262	Hellyer	720.00	15.00	6300.00	10.00	59500.00	56.00	85.00	107500.00	0.20	3.50	0.00	0.10	0.00	1.40	0.10	9.60	0.00	0.20
E201263	Hellyer	780.00	14.00	3700.00	10.00	66000.00	57.00	48.00	110500.00	0.20	5.70	0.00	0.00	0.10	1.50	0.10	10.20	0.00	0.20
E201288	Hercules	330.00	10.00	5000.00	11.00	46100.00	9.00	51.00	76000.00	37.60	4.00	0.20	15.00	0.20	1.90	0.10	4.70	3.20	0.20
E201289	Hercules	1200.00	8.00	4300.00	12.00	9600.00	9.00	540.00	150000.00	18.50	7.40	0.20	13.60	0.30	3.40	0.10	10.00	2.40	0.20
E201287	Hercules	1050.00	35.00	6000.00	8.00	75.00	9.00	230.00	70900.00	14.80	34.70	0.30	13.00	0.80	14.50	0.20	6.60	0.00	0.20
E201286	Hercules	270.00	8.00	180.00	7.00	89.00	9.00	12.00	250.00	26.70	31.80	0.30	14.30	0.60	19.50	0.30	2.40	0.00	0.20
E201347	Hines Road	20.00	8.00	16.00	5.00	16.00	9.00	10.00	20.00	68.70	2.30	0.20	11.50	0.00	0.90	2.10	1.60	3.80	0.00
E201348	Hines Road	20.00	8.00	8.00	8.00	10.00	9.00	10.00	12.00	79.60	1.40	0.20	4.60	0.00	0.70	0.00	0.50	1.00	0.00
E201308	King Lyell	46.00	8.00	51.00	5.00	135.00	16.00	27.00	18.00	50.30	28.00	0.30	6.50	0.00	0.90	0.00	1.90	0.50	0.20
E201315	Lilydale Road	20.00	8.00	10.00	5.00	36.00	9.00	10.00	10.00	73.40	2.70	0.80	18.00	0.00	0.60	0.00	0.30	3.90	0.10
E201242	Lohrey's pit	48.00	10.00	39.00	33.00	11.00	9.00	10.00	44.00	65.00	3.80	0.60	13.00	0.00	4.50	7.00	0.70	4.10	0.30
E201349	Long Point	20.00	8.00	5.00	13.00	10.00	9.00	10.00	23.00	62.00	2.30	0.40	8.60	0.00	1.10	0.10	0.40	1.80	0.10
E201313	Lorrina Road mine face	20.00	8.00	9.00	6.00	51.00	9.00	10.00	9.00	77.50	1.00	0.30	4.50	0.00	0.40	0.00	0.10	1.30	0.00
E201114	Lyell Highway	28.00	8.00	5.00	10.00	11.00	9.00	10.00	45.00	75.10	4.30	0.70	15.40	0.00	1.60	0.00	0.00	4.40	0.00
E201140	Magnet Mine	20.00	60.00	11.00	570.00	15.00	9.00	10.00	85.00	51.10	10.90	0.10	7.50	0.50	13.70	5.40	0.50	1.00	0.00
E201139	Magnet Mine	430.00	8.00	5.00	260.00	1450.00	13.00	14.00	7000.00	30.10	30.00	0.10	6.10	13.00	6.40	1.10	4.20	1.00	0.20
E201329	Memana Road	20.00	8.00	16.00	9.00	10.00	9.00	10.00	64.00	74.80	2.60	0.50	13.60	0.00	0.70	0.00	0.20	2.40	0.00
E201328	Memana Road	20.00	8.00	5.00	5.00	10.00	9.00	10.00	5.00	67.00	0.90	0.30	10.80	0.00	0.00	0.00	0.00	0.30	0.00
E201327	Memana Road	20.00	8.00	5.00	5.00	20.00	9.00	10.00	5.00	54.90	1.50	0.30	22.70	0.00	0.10	0.00	0.10	2.50	0.00
E201112	Mathinna Plains Road	20.00	57.00	40.00	276.00	12.00	9.00	10.00	170.00	43.70	16.70	3.50	13.40	0.20	12.90	10.50	3.80	1.50	1.10
E201385	Maydena Quarry	20.00	31.00	18.00	45.00	10.00	9.00	10.00	120.00	47.20	13.50	2.90	13.20	0.10	6.20	7.40	3.30	0.60	0.20
E201111	Mersey River	20.00	15.00	63.00	10.00	23.00	9.00	10.00	38.00	5.60	0.90	0.20	1.50	0.00	1.50	62.80	2.10	0.90	0.00
E201240	Moina mine	20.00	8.00	64.00	26.00	33.00	1200.00	380.00	150.00	36.20	27.80	0.30	12.90	0.40	3.40	16.60	4.80	1.90	0.20
E201273	Montana-Zeehan	64.00	8.00	5.00	10.00	115.00	9.00	10.00	115.00	83.60	4.10	0.20	4.60	0.20	0.50	0.10	0.00	0.90	0.00
E201122	Mt Agnew	20.00	8.00	5.00	7.00	22.00	9.00	10.00	43.00	80.20	2.30	0.20	13.20	0.00	0.10	0.40	2.30	5.00	0.00
E201121	Mt Agnew	28.00	8.00	16.00	8.00	165.00	420.00	55.00	220.00	86.00	4.80	0.10	7.60	0.00	0.00	0.10	0.30	0.20	0.10

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
E201141	Mt Bischoff	220.00	8.00	5.00	5.00	880.00	62.00	15.00	3800.00	0.00	30.00	0.00	0.30	12.30	14.00	1.00	5.50	0.10	0.20
E201142	Mt Bischoff	20.00	8.00	10.00	5.00	20.00	680.00	19.00	31.00	75.10	1.50	0.00	22.30	0.00	0.00	0.20	0.00	0.10	0.00
E201102	Mt Bischoff	43.00	8.00	28.00	7.00	19.00	430.00	25.00	31.00	74.30	2.10	0.00	21.00	0.00	0.00	0.40	0.00	0.10	0.00
E201143	Mt Bischoff	68.00	8.00	110.00	8.00	210.00	310.00	40.00	12800.00	32.10	17.00	0.00	26.20	0.30	3.10	6.70	3.10	0.10	0.30
E201101	Mt Bischoff	20.00	8.00	320.00	5.00	97.00	5100.00	24.00	89.00	7.00	30.00	0.00	0.20	2.40	14.80	0.50	3.30	0.00	0.30
E201113	Mt Cameron	20.00	8.00	5.00	9.00	10.00	63.00	10.00	22.00	88.10	2.10	0.40	1.20	0.00	0.00	0.10	0.00	0.00	0.00
E201269	Mt Farrell	200.00	23.00	54.00	44.00	2850.00	22.00	20.00	8400.00	76.70	5.40	0.50	10.60	0.70	0.60	0.20	0.50	2.70	0.10
E201268	Mt Farrell		27.00	2000.00	23.00	102000.00	32.00		16000.00	29.80	3.20	0.20	5.60	0.60	1.30	0.20	2.30	1.10	0.10
E201118	Mt Jukes Road	20.00	8.00	2300.00	6.00	11.00	9.00	46.00	110.00	73.40	9.00	0.50	15.40	0.00	1.50	0.10	0.40	6.50	0.10
E201115	Mt Lyell	20.00	8.00	5.00	5.00	180.00	9.00	10.00	310.00	76.30	6.00	0.20	12.20	0.10	1.90	0.00	0.00	3.10	0.00
E201272	Mt Lyell	41.00	42.00	1100.00	17.00	24.00	9.00	10.00	145.00	69.60	7.40	0.30	16.60	0.10	2.50	0.90	0.20	4.70	0.10
E201270	Mt Lyell	24.00	78.00	9000.00	15.00	34.00	13.00	31.00	160.00	60.10	11.50	0.40	18.10	0.10	3.00	0.60	0.60	4.10	0.20
E201271	Mt Lyell-Prince Lyell	26.00	81.00	8700.00	18.00	32.00	10.00	34.00	650.00	64.20	11.20	0.30	15.90	0.10	2.90	0.70	0.80	3.80	0.20
E201116	Mt Lyell-Iron Blow	37.00	9.00	80.00	33.00	86.00	9.00	15.00	800.00	57.40	18.10	0.60	19.40	0.30	5.80	0.00	1.10	2.60	0.20
E201345	Mt Tanner	20.00	8.00	7.00	5.00	22.00	9.00	10.00	34.00	70.90	1.10	0.10	11.80	0.00	0.10	0.50	2.50	3.90	0.00
E201355	Mt Tanner Tin mine	20.00	8.00	7.00	5.00	10.00	9.00	10.00	5.00	74.80	0.40	0.50	0.30	0.00	0.00	0.00	0.10	0.00	0.00
E201353	Mt Tanner Tin mine	20.00	9.00	9.00	7.00	10.00	17.00	96.00	5.00	82.40	0.60	1.40	0.90	0.00	0.00	0.00	0.20	0.10	0.00
E201354	Mt Tanner Tin mine	20.00	8.00	7.00	6.00	12.00	17.00	130.00	5.00	73.70	0.70	1.80	1.30	0.00	0.00	0.00	0.10	0.00	0.00
E201117	Newall Creek	20.00	8.00	760.00	9.00	37.00	9.00	10.00	28.00	102.30	2.30	0.30	12.80	0.00	0.00	0.00	0.00	0.70	0.00
E201279	Nth Comstock Zeehan	46.00	8.00	5.00	5.00	120.00	9.00	10.00	950.00	52.50	2.10	0.00	0.10	0.10	22.20	0.00	0.00	0.00	0.00
E201314	Olivers Road	20.00	12.00	5.00	11.00	13.00	9.00	10.00	25.00	5.40	0.90	0.10	1.10	0.00	2.30	76.90	1.70	0.50	0.00
E201161	Oonah-Zeehan	150.00	8.00	5.00	13.00	320.00	22.00	10.00	310.00	67.40	16.50	0.20	2.60	0.00	0.60	0.10	1.40	0.40	0.00
E201384	Orieco mine	180.00	8.00	15000.00	36.00	145.00	620.00	47.00	165.00	69.80	2.60	0.50	13.80	0.00	0.40	0.00	0.50	1.90	0.00
E201341	Palana Road	20.00	16.00		16.00	11.00	9.00		26.00	7.00	2.30	0.20	1.80	0.10	1.80	68.00	1.70	0.30	0.10
E201340	Palana Road	20.00	20.00		16.00	14.00	9.00		23.00	4.90	1.90	0.10	1.20	0.10	1.60	74.60	1.70	0.20	0.10
E201342	Palana Road	20.00	8.00	8.00	10.00	26.00	9.00	10.00	36.00	63.10	3.10	0.40	13.00	0.10	1.10	2.30	1.80	4.30	0.10
E201346	Palana Road	20.00	8.00	6.00	5.00	10.00	9.00	10.00	5.00	72.80	0.50	1.20	2.10	0.00	0.00	0.00	0.20	0.20	0.00
E201174	Pearshape Quarry	20.00	8.00	5.00	5.00	10.00	9.00	10.00	37.00	75.70	1.90	0.40	18.00	0.00	1.00	0.00	0.00	5.70	0.00
E201173	Pearshape Quarry	29.00	16.00	23.00	28.00	13.00	9.00	10.00	70.00	72.90	4.70	0.50	20.60	0.00	1.40	0.10	0.00	5.90	0.00
E201172	Pearshape Quarry	54.00	9.00	5.00	13.00	14.00	9.00	10.00	45.00	75.00	3.00	0.50	18.70	0.00	1.30	0.10	0.00	6.00	0.00
E201168	Pioneer mine	20.00	8.00	5.00	6.00	48.00	31.00	10.00	200.00	16.20	1.00	39.20	0.10	0.00	1.00	0.00	3.80	0.40	0.20
E201260	Que River	640.00	8.00	250.00	8.00	2400.00	9.00	10.00	950.00	17.70	31.60	0.20	6.50	0.00	3.10	0.10	3.80	0.80	0.10
E201276	Queen Hill 4 Zeehan	1750.00	8.00	820.00	11.00	10000.00	1150.00	10.00	12500.00	6.60	31.00	0.20	1.50	0.10	2.20	0.10	4.90	0.20	0.10
E201160	Queen Hill Zeehan	30.00	8.00	5.00	65.00	160.00	1800.00	10.00	38.00	63.40	18.30	0.00	2.20	0.00	0.70	3.80	1.60	0.40	0.10
E201334	Razorback Mount	20.00	8.00	5.00	5.00	21.00	10.00	10.00	35.00	67.30	1.90	0.10	12.70	0.00	0.20	0.40	2.10	5.60	0.10
E201176	Reekara Quarry	74.00	21.00	74.00	160.00	19.00	9.00	10.00	160.00	58.30	11.90	2.60	18.30	0.10	11.10	1.10	2.00	1.80	0.70
E201175	Reekara Quarry	20.00	8.00	5.00	9.00	37.00	9.00	10.00	33.00	75.60	1.40	0.10	14.30	0.00	0.20	0.20	1.60	6.40	0.00
E201125	Renison	740.00	16.00	16.00	19.00	39.00	185.00	10.00	34.00	78.60	4.90	0.70	15.00	0.10	1.70	0.10	0.60	4.00	0.10
E201258	Renison	5300.00	8.00	1450.00	23.00	175.00	9600.00	125.00	140.00	43.40	33.20	0.40	6.30	0.40	12.00	1.10	3.20	1.10	0.30

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
E201257	Renison	6700.00	8.00	1800.00	15.00	165.00	6900.00	100.00	185.00	36.60	33.50	0.20	4.70	0.30	10.80	1.60	3.00	1.10	0.30
E201256	Renison	12600.00	8.00	2900.00	23.00	300.00	7600.00	150.00	530.00	39.50	34.00	0.30	6.00	0.60	6.40	1.30	3.10	0.80	0.30
E201259	Renison	10100.00	8.00	2300.00	17.00	340.00	7900.00	120.00	600.00	35.70	32.90	0.20	4.50	0.80	10.40	1.70	3.30	0.90	0.20
E201103	Renison	2400.00	8.00	81.00	11.00	890.00	130.00	10.00	57.00	71.50	14.50	0.00	0.70	0.00	0.50	0.20	1.30	0.00	0.10
E201124	Renison	70300.00	130.00	160.00	20.00	1100.00	1750.00	13.00	55.00	42.90	21.90	0.20	4.60	0.00	2.90	0.10	3.00	0.10	0.20
E201265	Renison	25000.00	8.00	1100.00	8.00	210.00	12600.00	220.00	71.00	40.10	32.80	0.20	6.20	0.00	2.10	0.20	3.30	1.00	0.20
E201264	Renison	61000.00	10.00	4600.00	18.00	400.00	9400.00	59.00	590.00	17.30	32.00	0.10	1.00	0.10	2.60	1.10	4.30	0.00	0.20
E201178	Ridges Road	390.00	18.00	5.00	22.00	10.00	9.00	11.00	115.00	13.10	56.10	0.20	2.20	0.00	1.30	0.00	4.60	0.10	0.50
E201177	Ridges Road	480.00	15.00	5.00	6.00	15.00	9.00	10.00	100.00	6.00	57.60	0.20	1.90	0.00	1.50	0.00	5.00	0.00	0.60
E201290	Rosebery mine	970.00	8.00	2950.00	8.00	16900.00	37.00	170.00	71400.00	45.00	11.90	0.30	15.70	0.30	2.10	0.20	4.60	3.20	0.10
E201291	Rosebery mine	670.00	8.00	2600.00	10.00	8000.00	9.00	190.00	68600.00	32.30	16.80	0.20	12.70	0.90	2.20	3.00	6.10	2.30	0.10
E201292	Rosebery north pit	1450.00	8.00	160.00	18.00	27700.00	9.00	250.00	122000.00	9.10	14.90	0.10	3.40	0.20	1.90	0.10	10.80	0.40	0.10
E201293	Rosebery south pit	730.00	8.00	4000.00	10.00	18000.00	9.00	300.00	111600.00	20.40	8.30	0.10	3.90	0.90	1.50	0.10	10.20	0.70	0.20
E201243	Round Hill mine	20.00	8.00	5.00	13.00	13.00	9.00	10.00	22.00	86.50	1.40	0.20	5.30	0.00	0.30	0.00	0.00	1.40	0.00
E201110	Sandbanks Tier	20.00	33.00	82.00	69.00	11.00	9.00	10.00	93.00	61.80	10.30	0.70	18.40	0.20	4.70	9.70	2.00	1.00	0.10
E201335	Sapphire River	20.00	47.00	46.00	140.00	10.00	9.00	10.00	120.00	46.50	12.40	2.30	13.70	0.10	6.90	8.80	2.10	1.00	0.50
E201267	Savage River mine (CP)	20.00	140.00	14.00	165.00	10.00	9.00	11.00	82.00	13.40	38.40	2.30	2.00	0.10	23.10	0.10	4.60	0.00	0.30
E201266	Savage River mine (NP)	23.00	79.00	28.00	100.00	12.00	9.00	12.00	105.00	15.30	36.50	2.20	2.70	0.20	22.00	3.80	5.00	0.00	0.30
E201165	Scottsdale Road	20.00	8.00	5.00	5.00	33.00	9.00	10.00	24.00	79.10	0.70	0.00	12.30	0.00	0.00	0.30	2.70	4.50	0.00
E201280	Silver Spray Zeehan	1000.00	9.00	460.00	11.00	820.00	170.00	240.00	61500.00	60.10	2.20	0.10	3.10	0.00	1.00	0.10	3.90	0.60	0.10
E201281	Silver Spray Zeehan	840.00	16.00	730.00	34.00	63300.00	220.00		49500.00	25.20	3.90	0.00	0.60	0.30	1.90	0.90	4.40	0.10	0.10
E201137	Stanley Creek	20.00	26.00	58.00	86.00	18.00	9.00	10.00	115.00	64.60	10.40	1.40	14.70	0.20	4.80	2.00	1.50	3.20	0.20
E201138	Stanley Creek	20.00	8.00	5.00	8.00	10.00	28.00	12.00	39.00	85.40	5.50	0.10	6.80	0.00	0.10	0.10	0.30	0.00	0.00
E201162	Stormsdown Zeehan	41.00	8.00	40.00	28.00	9800.00	1900.00	10.00	43.00	82.70	5.80	0.00	0.10	0.00	0.00	0.00	0.20	0.00	0.00
E201277	Sylvester-Comstock	970.00	8.00	210.00	13.00	32700.00	105.00	230.00	116500.00	19.00	8.90	0.00	0.10	0.60	2.80	0.10	10.00	0.00	0.10
E201319	Tomahawk	20.00	12.00	22.00	16.00	18.00	9.00	10.00	50.00	66.80	3.70	0.50	13.70	0.10	1.80	3.30	2.60	3.10	0.10
E201123	Trial Harbour Road	20.00	8.00	5.00	10.00	10.00	49.00	12.00	56.00	82.00	7.70	0.30	14.00	0.00	0.40	0.10	0.60	0.10	0.00
E201337	Vinegar Hill	20.00	8.00	6.00	6.00	27.00	9.00	10.00	38.00	67.30	2.10	0.20	14.50	0.00	0.10	1.60	2.40	4.20	0.20
E201352	Wingaroo	20.00	17.00		6.00	11.00	9.00		26.00	4.40	1.30	0.00	0.40	0.10	1.80	77.60	1.90	0.10	0.00
E201350	Wireless Hill, Emita	20.00	8.00	7.00	5.00	42.00	9.00	10.00	9.00	67.20	1.30	0.10	14.20	0.00	0.30	0.60	2.10	5.60	0.20
E201320	Waterhouse Rd quarry	20.00	8.00	9.00	6.00	13.00	9.00	10.00	50.00	68.10	2.50	0.30	13.30	0.00	0.60	1.00	1.90	4.20	0.10
E201275	Zeehan (Poverty Point)	120.00	8.00	49.00	12.00	6400.00	68.00	10.00	2100.00	74.00	8.80	0.20	5.50	1.30	0.40	0.00	0.80	1.10	0.00
E201283	Zeehan Queen 2	730.00	8.00	2050.00	35.00	7600.00	43.00	260.00	98000.00	17.40	3.50	24.00	0.30	4.60	3.00	10.50	8.80	0.60	0.30
E201274	Zeehan-Montana	870.00	8.00	1350.00	13.00	6200.00	560.00	330.00	116000.00	16.30	38.90	0.00	0.60	4.60	2.70	0.10	8.80	0.10	0.20
ABM8588	Savage River mine																		
JC 1186	Renison mine																		
M2	Storys Creek																		
AR17*	Anthony Road	10.00		140.00		30.00			165.00	63.76	5.12	0.86	16.03	0.11	2.11	1.41	4.82	2.73	0.15
401048	Anthony Road		10.00	15.00		10.00			15.00	52.77	7.80	1.73	18.60	0.05	7.15	0.17	0.76	3.99	0.25

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
401044	Anthony Road		10.00	15.00		30.00			65.00	61.18	6.57	1.04	13.05	0.20	3.92	2.72	2.77	2.01	0.23
401051	Anthony Road		20.00	15.00		15.00			130.00	69.38	3.42	0.43	13.46	0.07	1.10	0.20	2.50	6.80	0.18
AR10*	Anthony Road	30.00		75.00		10.00			135.00	68.38	3.11	0.35	16.97	0.04	1.65	0.71	4.50	2.75	0.15
AR15*	Anthony Road	40.00		130.00		1300.00			980.00	64.98	4.36	0.58	14.56	0.16	1.33	3.15	1.65	3.90	0.16
401039	Anthony Road		10.00	15.00		10.00			20.00	66.75	5.00	0.46	12.84	0.10	2.66	0.68	1.42	6.13	0.20
AR13*	Anthony Road	20.00		130.00		40.00			480.00	55.25	7.91	0.50	16.27	0.17	4.72	5.65	4.05	0.29	0.25
401042	Anthony Road		10.00	15.00		15.00			20.00	65.50	4.81	0.55	13.89	0.17	2.30	0.67	1.37	5.84	0.25
401182	Anthony Road		15.00	135.00		45.00			95.00	70.97	3.25	0.23	14.21	0.10	0.87	1.80	2.26	4.63	0.01
401173	Anthony Road		15.00	20.00		15.00			45.00	70.33	6.95	0.11	12.15	0.25	2.27	0.46	0.74	3.20	
401179	Anthony Road		25.00	25.00		55.00			120.00	63.40	6.04	0.47	14.26	0.37	2.49	1.50	0.60	7.63	0.01
401054	Anthony Road		20.00	10.00	10.00	15.00			30.00	61.68	7.63	0.60	14.90	0.07	2.94	2.34	1.99	3.31	0.20
401177	Anthony Road									57.58	9.21	0.70	17.15	0.89	3.71	0.25	0.28	5.15	0.02
31688	Anthony Road				8.00		14.00	19.00	47.00	65.60	5.85	0.73	12.54	0.19	1.22	2.46	1.39	2.89	0.11
401041	Anthony Road		15.00	45.00		25.00			195.00	71.06	3.73	0.37	12.43	0.07	1.87	1.35	3.00	2.57	0.21
401100	Anthony Road	5.00	89.00	34.00	2.00	28.00		10.00	200.00	86.08	1.71	0.36	6.73	0.01	0.97	0.07	0.31	1.77	0.01
401172	Anthony Road		15.00	20.00		25.00			90.00	65.38	12.34	0.05	8.57	0.40	5.78	0.37	0.30	0.09	0.01
LH1/C	Anthony Road	30.00		90.00		45.00			310.00	75.43	2.21	0.31	11.29	0.04	1.25	1.68	0.27	2.83	0.04
624207	Anthony Road				56.00	7.00			80.00	57.30	6.62	0.47	15.60	0.12	4.30	6.10	6.30	0.32	0.28
HA8/B	Anthony Road	90.00		550.00		280.00			2100.00	68.47	4.55	0.34	13.64	0.09	0.41	0.45	0.28	5.39	0.12
LH1/D	Anthony Road	100.00		125.00		85.00			190.00	68.06	4.98	0.35	12.31	0.11	1.38	2.13		3.03	0.11
AR137C	Arthur River			29.00	26.00				26.00	33.95	13.03	2.95	6.26	0.12	17.19	9.12	0.07	0.65	0.66
401357	Balfour Road						4.00			63.52	5.29	0.72	18.35	0.06	1.28	0.01	0.21	4.44	0.01
Leven 1	Bannons Park	5.00		90.00		-5.00			95.00	58.16	8.62	1.14	11.01	0.21	5.31	5.21	2.94	0.74	0.12
401375	Bass Highway						9.00			70.09	4.28	0.55	15.00	0.06	1.59	0.01	0.63	3.71	0.05
BH-12	Black Harry Road			14.00	3.00				123.00	69.58	3.36	0.37	13.12	0.08	0.89	2.65	1.66	3.01	0.18
401373	Black River			67.00	194.00					97.61	0.33	0.02	1.27	0.01	0.09	0.01	0.10	0.34	0.02
401351	Blackwater River						-2.00	-4.00		45.47	14.07	2.69	23.17	0.01	0.91	0.07	0.43	2.13	0.17
401350	Blackwater River						18.00	-4.00		47.84	12.90	1.59	13.82	0.13	5.61	4.44	5.44	0.05	0.16
FJ321	Blackwater Rivulet		56.00	68.00	180.00	4.00	4.00	58.00	120.00	47.24	12.01	2.01	13.92	0.18	9.31	8.04	2.57	1.29	0.39
401257	Boco Road		5.00	5.00	35.00	5.00		-1.00	30.00	72.44	2.21	0.17	15.90	0.07	0.56	-0.01	0.23	0.87	0.01
401255	Boco Road		1.00	177.00	21.00	628.00			57.00	74.76	1.95	0.17	12.77	0.09	2.24	-0.01	0.15	4.19	
401256	Boco Road	3.00		7.00	7.00	10.00		-1.00	49.00	79.91	1.22	0.05	10.98	0.05	0.57	-0.01	0.18	3.93	
401250	Boco Road		4.00	170.00	44.00	1.00			87.00	70.79	3.22	0.34	15.21	0.07	1.33	-0.01	0.15	4.15	0.01
MR671	Boco Road	2.00	36.00	10.00	45.00	-1.00	-3.00	-20.00	66.00	70.11	3.09	0.42	14.79	0.09	1.13	2.06	2.37	3.52	0.10
401254	Boco Road		15.00	837.00	14.00	419.00			686.00	82.66	1.42	0.02	9.28	0.07	1.55	-0.01	0.15	2.82	0.01
401228	Boco Road			-5.00	28.00	-6.00			37.00	69.72	3.50	0.38	15.86	0.05	0.81	-0.01	0.28	2.83	0.02
401066	Bradshaws Road	9.00		7.00		-5.00			44.00	74.12	2.16	0.23	12.28	0.03	0.76	0.57	3.20	3.73	0.15
401037	Bradshaws Road	5.00		124.00		218.00			491.00	76.30	1.35	0.18	12.85	-0.01	0.57	0.28	3.75	1.77	0.02
401026	Bradshaws Road		3.00			29.00			36.00	63.09	5.57	0.73	15.50	0.03	2.70	0.05	0.87	4.03	0.25

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
401070	Bradshaws Road			39.00		8.00			82.00	63.33	5.12	0.92	14.88	0.12	2.40	1.74	3.80	2.86	0.18
401031	Bradshaws Road		31.00	38.00	114.00	14.00			111.00	69.76	3.19	0.23	9.35	0.27	1.48	3.90	0.88	2.54	0.21
401080	Bradshaws Road		1.00	4.00	46.00	3.00			160.00	71.81	2.52	0.55	14.61	0.11	0.72	0.15	0.14	4.25	0.10
401025	Bradshaws Road	12.00		22.00	48.00	23.00	-3.00		124.00	76.54	2.10	0.36	11.85	0.01	0.99	0.05	0.20	3.99	0.14
BR1/B	Bradshaws Road	4.00		90.00		60.00			260.00	74.32	2.67	0.36	13.07	0.03	1.93	0.45	0.13	4.03	0.06
401090	Bradshaws Road	5.00	34.00	11.00	74.00	104.00	-3.00	-10.00	1450.00	53.50	10.72	1.23	15.15	0.20	4.65	3.30	6.30	0.69	0.05
401084	Bradshaws Road		24.00	57.00	45.00	35.00			110.00	60.34	6.41	0.36	13.56	0.10	3.99	6.67	1.54	1.87	0.31
401035	Bradshaws Road						6.00			58.25	8.45	0.43	12.98	0.10	9.21	0.55	0.47	2.04	0.20
401068	Bradshaws Road	9.00		8.00	10.00	20.00		-1.00	98.00	75.19	3.30	0.18	11.15	0.01	0.86	0.31	1.77	4.34	0.10
T7	Brittons Swamp			-2.00	-3.00	43.00	8.00		52.00	0.19	0.05	-0.01	0.07	0.01	19.75	32.43	0.16		0.02
T8	Brittons Swamp		7.00	-6.00	5.00	14.00	24.00		50.00	0.17	0.08	0.01	0.08	0.01	20.90	31.98	0.21	0.02	0.02
WB19	Brittons Swamp		50.00	62.00	220.00	4.00	4.00	37.00	115.00	37.40	9.61	2.04	11.95	0.15	9.40	10.54	3.03	1.73	0.66
32725B	Bulgobac Hill		40.00	50.00		250.00			125.00	74.60	2.24	0.32	12.80	0.04	0.65	0.55	2.35	4.42	0.03
32726B	Bulgobac Hill		15.00	10.00	10.00	10.00			25.00	67.20	3.92	0.69	15.20	0.07	1.10	2.74	2.10	4.09	0.13
32514	Bulgobac Hill	8.00	15.00	10.00	135.00	30.00			25.00	62.10	6.41	0.43	11.20	0.30	4.55	3.81	1.20	1.54	0.08
32730B	Bulgobac Hill		5.00	10.00	5.00	35.00			95.00	63.80	4.61	0.67	15.40	0.12	1.80	4.07	2.45	3.11	0.15
38112	Bulgobac Hill	21.00	20.00	15.00	135.00	35.00			160.00	54.40	7.20	0.45	11.42	0.30	4.33	6.71	0.17	2.14	0.23
32748B	Bulgobac Hill			40.00	22.00	8.00			62.00	51.80	8.05	0.44	15.80	0.26	4.70	6.21	4.10	0.89	0.13
34834	Burns Peak						-4.00			69.00	5.79	0.52	14.13	0.09	1.50	0.11	0.05	4.23	0.10
34838	Burns Peak			41.00		4.00			9.00	66.20	6.74	0.50	14.74	0.17	2.06	0.26	0.31	3.96	0.12
34888	Burns Peak			5.00		10.00			80.00	71.60	4.31	0.30	13.85	0.02	0.44	-0.01	0.10	4.44	0.02
34845	Burns Peak	40.00	10.00	5.00	35.00	5.00		-1.00	90.00	69.20	6.11	0.29	13.45	0.20	1.48	0.50	0.16	3.73	0.04
CRD86-1/A	Cattley Range	770.00		115.00		15.00			195.00	61.60	6.40	0.82	12.52	0.19	2.32	3.42	0.26	3.11	0.23
NC498B	Corinna area									56.93	13.76	1.81	11.92	0.08	6.06	0.20	0.41	0.85	0.31
NC331	Corinna area									47.70	10.13	1.18	14.37	0.19	7.84	10.18	3.02	0.15	0.39
84 114	Cradle Mountain			18.00		6.00			94.00	54.17	8.60	0.61	14.67	0.17	6.83	10.71	2.14	0.81	0.09
84 115	Cradle Mountain	11.00								53.94	8.71	0.62	14.45	0.17	6.76	10.30	2.14	0.93	0.09
33733	Dallwitz prospect			5.00		10.00			150.00	69.60	4.54	0.30	13.00	0.17	0.86	1.05		6.31	0.05
34046	Dallwitz prospect		60.00	32.00	21.00	61.00			81.00	73.30	4.08	0.30	12.67	0.06	0.83	0.16	0.33	4.96	0.04
31923	Dalmeny prospect		2.00	7.00	14.00	12.00			21.00	74.60	2.27	0.31	12.92	0.08	0.41	1.41	3.45	2.92	0.04
LFB 1770	Dolphin mine			5.00		21.00	11.00		78.00	67.92	2.86	0.48	14.52	0.06	1.51	2.89	3.40	4.06	0.21
NC446	Donaldson River area				743.00					53.16	8.22	0.85	13.88	0.14	5.81	8.87	1.92	1.80	0.33
NC447	Donaldson River area		79.00		626.00					51.80	8.75	0.89	12.01	0.15	8.31	8.77	1.45	0.99	0.33
NC312B	Donaldson River area		85.00		483.00					47.98	13.61	2.27	14.04	0.22	5.52	4.86	2.02	3.13	0.42
401346	Edith Creek Road						20.00			7.46	0.50	0.02	0.49	0.01	20.13	28.22	0.21	0.05	0.16
84 267	Fingal					18.00				54.81	9.66	0.71	14.86	0.18	5.38	10.51	1.94	0.98	0.11
401330	Granville Road									53.72	9.09	0.57	14.13	0.16	6.15	11.23	1.95	0.61	0.12
401329	Granville Road									54.47	8.90	0.62	14.22	0.15	6.21	10.86	2.06	0.68	0.12
401326	Granville Road									53.36	8.72	0.41	13.27	0.17	8.34	11.35	1.84	0.73	0.11

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
401286	Granville Road		5.00	-1.00	5.00	31.00			49.00	49.25	12.91	1.71	13.93	0.25	6.42	8.97	3.49	0.75	0.03
401325	Granville Road			54.00	128.00					84.37	3.20	0.40	6.57	0.06	0.31	0.00	0.15	1.53	0.01
B6	Gunns Plains Road	2.00		60.00		35.00			145.00	48.40	11.97	1.49	13.93	0.19	6.51	9.70	3.05	0.25	0.12
HRC96-18	Hellyer			135.00		45.00			305.00	65.30	4.33	0.72	16.06	0.10	1.28	1.22	6.80	2.30	0.13
HRC96-6	Hellyer	100.00		100.00		75.00			125.00	76.28	1.26	0.24	12.56	0.01	1.27	0.20	3.33	2.94	0.06
MAC1/A	Hellyer	40.00		80.00		40.00			205.00	44.43	7.43	0.28	10.79	0.18	9.01	9.73	0.78	0.87	0.12
HRC96-7	Hellyer	15.00		300.00		120.00			265.00	74.56	2.46	0.35	12.90	0.02	1.44	0.16	5.09	1.35	0.06
HRC96-25	Hellyer	9.00		75.00		25.00			130.00	78.82	1.10	0.14	12.35	0.04	0.29	0.22	5.64	1.22	0.01
MR435	Hellyer	20.00			267.00					74.86	1.42	0.11	11.67	0.06	0.47	2.91	1.53	2.45	0.03
HRC96-13	Hellyer	5.00		75.00		60.00			180.00	66.36	4.65	0.80	16.49	0.04	1.59	0.37	3.26	3.16	0.16
HRC96-4	Hellyer	60.00		100.00		50.00			225.00	59.23	6.55	0.69	17.82	0.03	4.81	0.08	1.33	3.90	0.10
628426	Hellyer			31.00	9.00	13.00			65.00	44.49	7.70	0.95	12.81	0.14	9.19	9.18	2.40	0.06	0.85
214742	Hellyer			-5.00		-5.00			45.00			0.38			5.45	14.27	2.47	1.45	
HRC96-1	Hellyer	5.00		65.00		50.00			165.00	52.95	7.01	0.81	16.47	0.25	6.76	1.82	0.81	3.70	0.10
HRC96-24	Hellyer	5.00		75.00		30.00			145.00	55.25	6.09	0.79	12.45	0.14	4.88	5.26	0.95	2.95	0.16
MAC5/A	Hellyer	10.00		65.00		10.00			115.00	54.73	6.89	0.48	14.51	0.12	4.53	5.83	4.02	0.63	0.21
HRC96-2	Hellyer	5.00		60.00		35.00			220.00	55.29	6.05	0.65	14.28	0.14	5.58	4.38	1.80	2.90	0.15
401283	Hellyer			-3.00	-3.00	52.00	19.00		40.00	49.43	13.25	1.36	15.02	0.18	4.84	7.55	2.58	1.00	0.03
HRC96-10	Hellyer			125.00		20.00			125.00	50.43	6.23	0.79	15.37	0.10	7.29	4.85	0.83	3.44	0.10
HRC96-33	Hellyer	30.00		100.00		250.00			885.00	71.29	1.78	0.53	15.32	0.02	1.91	0.04	0.75	3.67	0.08
334100	Hellyer	4.00		15.00		165.00			155.00	68.73	5.86	0.56	14.31	0.20	2.30	1.75	2.07	2.73	0.11
HRC96-15	Hellyer	15.00		80.00		35.00			150.00	68.75	5.33	0.60	13.01	0.16	2.33	0.24	0.81	3.22	0.14
HRC96-42	Hellyer	30.00		100.00		165.00			575.00	74.46	2.33	0.37	14.20	0.01	0.40	0.04	1.41	3.80	0.08
P088	Hellyer									68.34	5.40	0.26	13.25	0.37	0.76	2.38	1.34	2.25	0.09
HRC96-41	Hellyer	15.00		95.00		35.00			310.00	64.31	4.96	0.56	15.29	0.10	2.19	3.43	3.12	2.95	0.15
214691	Hellyer			5.00		10.00			35.00			0.37			5.37	15.11	2.92	0.84	
628840	Hellyer			32.00		7.00			120.00	38.02	7.75	0.52	13.55	0.11	6.89	11.31	1.35	1.64	0.31
MAC10/E	Hellyer			100.00		40.00			115.00	63.48	4.66	0.58	13.11	0.08	2.63	3.82	1.35	3.36	0.11
213927	Hellyer			5.00		-5.00			115.00			0.35			5.70	6.59	3.75	0.52	
HRC96-28	Hellyer	10.00		50.00		230.00			855.00	51.54	3.99	0.89	25.73	0.03	2.92	0.39	1.77	5.41	0.32
214682	Hellyer			15.00		15.00			905.00			0.55			4.81	11.61	0.53	2.08	
P211	Hellyer									75.30	1.59	0.28	15.44		0.15	0.04	0.18	3.98	0.03
214650	Hellyer	3.00		85.00		15.00			40.00			0.55			6.47	11.33	0.26	2.19	
HC213764	Hellyer			10.00		25.00			1800.00			0.48			5.65	12.09	4.03	0.43	
HL80-103	Hellyer	4.00		40.00		145.00			150.00	52.10	5.98	0.49	12.21	0.09	4.75	9.20	1.16	1.59	0.17
213913	Hellyer			5.00		20.00			30.00			0.29			9.12	9.79	2.67	0.67	
HRC96-31	Hellyer	8.00		105.00		70.00			250.00	59.64	3.82	0.60	21.49	0.02	2.09	0.19	0.80	4.82	0.17
213878	Hellyer			5.00		10.00			60.00			0.55			5.65	3.60	4.31	2.52	
214661	Hellyer			10.00		-5.00			60.00			0.52			4.28	13.43	0.11	2.98	

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
214718	Hellyer			-5.00		5.00			80.00			0.40			4.97	13.40	0.16	2.28	
213863	Hellyer			30.00		60.00			320.00			0.39			2.02	10.21	3.37	2.30	
213898	Hellyer											0.38			6.17	15.81	3.19	2.33	
214769	Hellyer			10.00		5.00			30.00			0.49			4.99	7.28	0.67	3.00	
213868	Hellyer	24.00		15.00		60.00			40.00			0.49			4.82	5.09	2.57	3.20	
213852	Hellyer			5.00		15.00			25.00			0.53			3.88	2.20	3.50	1.96	
HRC96-45	Hellyer	9.00		85.00		55.00			575.00	74.10	4.24	0.30	11.82	0.01	0.51	0.01	0.04	4.21	0.04
334001	Hellyer			5.00		-5.00			30.00	46.40	12.33	0.07	16.21	0.25	5.69	15.35	0.10	3.26	0.45
214704	Hellyer	6.00		15.00		50.00			1500.00			0.60			2.09	9.16	0.11	4.22	
214640	Hellyer			10.00		10.00			30.00			0.58			1.97	2.11	4.84	4.01	
214796	Hellyer			15.00		10.00			90.00			0.43			4.19	15.25	0.75	1.75	
214680	Hellyer			15.00		5.00			50.00			0.43			2.97	1.74	3.02	5.20	
213888	Hellyer			5.00		10.00			35.00			0.47			3.95	1.83	2.57	2.24	
212339	Hellyer			10.00		25.00			1800.00			0.35			4.89	14.75	1.00	1.35	
214785	Hellyer			-5.00		-5.00			45.00			0.48			4.66	12.02	1.19	1.58	
215823	Hellyer			5.00		-5.00			105.00			0.04			7.28	0.50	0.07	1.54	
214759	Hellyer			10.00		25.00			750.00			0.67			1.19	1.09	2.63	5.69	
213910	Hellyer											0.53			1.24	1.04	0.54	6.63	
214646	Hellyer	3.00		5.00		5.00			70.00			0.57			3.95	0.45	0.13	6.02	
215697	Hellyer			5.00		10.00			55.00			0.34			2.47	0.43	0.08	2.77	
30099	Henty Fault		3.00			29.00			56.00	66.70	4.25	0.70	14.00	0.11	1.46	2.03	1.60	3.03	0.10
HR126	Henty River			48.00	9.00	23.00	14.00	24.00	46.00	49.23	10.87	1.34	14.62	0.17	8.27	7.45	3.13	1.07	0.11
MRV10	Henty River			540.00						60.34	6.49	0.70	15.13	0.14	3.66	4.11	3.09	2.44	0.21
HR47	Horton River		55.00	33.00	180.00			115.00	105.00	49.75	10.71	1.09	14.79	0.20	7.86	6.92	4.35	0.17	0.19
401148	Howards Road				8.00		14.00	23.00	26.00	52.95	8.27	0.61	18.64	0.03	7.13	0.15	0.81	4.11	0.01
401150	Howards Road			34.00	42.00	44.00	17.00	16.00	34.00	59.63	6.56	0.54	17.57	0.01	4.44	0.03	1.25	3.77	0.01
401149	Howards Road				8.00	37.00		14.00	25.00	52.54	7.72	0.62	17.48	0.07	6.96	1.29	0.87	4.21	0.01
C12Q	Huxley Track		5.00	15.00	4.00	12.00			105.00	59.50		0.80	13.90	0.15	3.70	4.30	6.00	1.40	0.16
TJ2144	Julius River	20.00	55.00	55.00	165.00	10.00	9.00	19.00	97.00	47.87	10.95	1.03	14.20	0.20	7.75	9.23	4.87	0.10	0.12
TJ3394	Julius River tributary	40.00		25.00		40.00			275.00	17.34	1.75	0.21	3.40	0.07	16.36	23.50	0.01	0.88	0.25
A55	Keddies Creek	4.00		90.00		150.00			330.00	76.80	3.77	0.65	9.02	0.04	1.55	0.34	2.30	1.35	0.17
KJ468	Keith River		34.00		63.00					73.86	3.02	0.36	6.12	0.06	3.03	3.97	0.48	1.54	0.09
32497	Koonya prospect		1.00	19.00	12.00	1.00			4.00	68.80	5.18	0.36	13.84	0.25	0.85	0.36		6.65	0.06
32491	Koonya prospect		48.00	35.00	37.00	15.00			110.00	67.10	6.12	0.45	13.06	0.14	2.16	1.22		3.32	0.08
33719	Koonya prospect									68.50	7.24	0.42	13.27	0.18	2.07	0.06		3.93	0.04
TJ2105	Lagunta Creek	22.00	67.00	39.00	180.00	11.00	8.00	11.00	87.00	47.81	11.80	1.44	14.29	0.27	7.67	9.90	3.24	0.58	0.17
G7	Lake Isandula	8.00		105.00		30.00			180.00	74.86	1.72	0.22	12.18	0.03	0.88	0.57	3.62	2.96	0.04
31375B	Lake Rosebery		37.00	68.00	68.00	-4.00	3.00		120.00	77.60	1.97	0.26	12.34	0.03	0.36	0.53	2.13	2.85	0.03
31379B	Lake Rosebery		5.00	29.00	55.00	10.00			185.00	73.70	6.47	0.23	11.98	0.35	0.67	0.01	0.19	2.96	0.02

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
32775B	Lake Rosebery	3.00	5.00	-1.00	30.00	-1.00		-1.00	30.00	73.30	2.30	0.35	14.99	0.25	0.63	0.09	0.09	5.07	0.05
31373B	Lake Rosebery			90.00		603.00			1951.00	72.90	4.20	0.31	13.45	0.06	1.25	-0.01		4.05	0.04
624430	Leech Hill		8.00		8.00	6.00			27.00	57.50	7.02	0.45	14.90	0.15	4.53	5.39	4.06	0.34	0.21
624429	Leech Hill		12.00		25.00	12.00			42.00	61.30	7.91	0.48	14.82	0.13	3.53	3.06	3.48	0.29	0.20
MRV5	Leech Hill		36.00	110.00	85.00	7.00			75.00	60.86	5.74	0.33	14.30	0.11	3.32	5.55	2.32	2.97	0.19
624431	Leech Hill			64.00	8.00	22.00			88.00	56.10	5.55	0.63	20.17	0.10	1.65	2.68	1.82	4.45	0.27
624434	Leech Hill		42.00	34.00	48.00	-4.00			63.00	61.90	6.77	0.42	13.78	0.09	1.57	3.46	2.28	2.76	0.19
MJ151	Leigh River		20.00		107.00					13.84	1.15	0.14	2.07	0.05	17.90	25.74	0.08	0.63	0.21
LD86-1/D	Luina	4.00		95.00		200.00			600.00	47.14	13.65	2.50	12.76	0.25	6.02	8.63	3.07	0.89	0.30
401294	Lyell Highway									20.37	1.70	0.20	5.13	0.05	13.35	24.10	0.20	1.29	0.03
KJ404	Lyons River			15.00		-5.00			40.00	79.71	2.48	0.49	7.50	0.05	2.30	2.12	0.27	1.16	0.05
562453	Mackintosh District				1.00							0.43			2.88	0.84	3.76	1.11	
431568	Mackintosh District				27.00							0.18			0.45	0.20	0.12	3.00	
MR391	Montezuma Falls						5.00			57.67	7.79	0.71	11.17	0.14	5.06	6.42	1.40	1.08	0.36
401219	Montezuma track						4.00			74.68	3.40	0.20	13.06	0.05	0.80	-0.01	0.25	3.78	0.01
216481	Mt Julia	10.00	4.00	140.00	5.00	5.00			50.00	70.40	3.17	0.56	15.01	0.02	0.74	0.16	1.84	3.77	0.14
32767	Mt Black	4.00	93.00	12.00	6.00	6.00		10.00	73.00	63.00	6.05	0.68	14.77	0.13	2.28	3.43	3.76	2.78	0.12
RED87+A513	Mt Black	20.00		95.00		90.00			170.00	66.24	4.18	0.46	13.92	0.09	1.15	3.13	2.26	3.41	0.11
MBE96-8	Mt Black			110.00		5.00			120.00	62.71	5.36	0.71	15.01	0.10	2.62	4.29	3.46	3.61	0.11
32786B	Mt Black			101.00		24.00			123.00	69.50	2.30	0.53	13.13	0.14	0.95	2.38	5.49	1.11	0.11
19818	Mt Cattley		35.00	68.00		9.00			160.00	47.50	6.89	0.62	12.80	0.16	4.32	10.20	2.40	1.71	0.03
18706	Mt Cattley			85.00		5.00			84.00	76.20	1.62	0.22	7.65	0.09	0.86	1.83	0.11	6.05	0.05
CRD86-1	Mt Cattley	2.00		65.00		20.00			140.00	57.30	8.24	0.73	11.60	0.35	2.07	4.00	0.15	3.44	0.14
VK-174	Mt Cattley	25.00		65.00		110.00			385.00	49.20	8.34	0.33	5.40	0.66	4.81	10.85	0.18	1.62	0.06
VK-031	Mt Cattley			100.00		25.00			115.00	59.50	9.47	0.39	16.00	0.03	1.27	0.04	0.70	3.45	0.09
19816	Mt Cattley		27.00	17.00		5.00			63.00	49.50	5.81	0.91	22.10	0.08	5.00	0.53	0.46	4.86	0.12
MAC20	Mt Cattley	30.00		70.00		205.00			1050.00	74.30	3.53	0.09	8.90	0.05	0.54	3.05	0.28	2.21	0.01
VK-002	Mt Cattley			100.00		45.00			175.00	70.60	8.82	0.36	8.52	0.01	0.59	0.02	0.07	2.86	0.03
P218	Mt Charter				5.00					58.21	8.01	0.35	18.27	0.21	3.49	0.54	5.02	1.39	0.11
MC2A/A	Mt Charter	30.00		55.00		15.00			105.00	55.33	6.48	0.48	12.85	0.25	6.28	6.91	3.35	1.01	0.23
MC2A/D	Mt Charter			5.00	3.00	5.00			53.00	71.57	2.20	0.23	12.21	0.07	1.62	2.99	0.22	3.70	0.16
P222	Mt Charter			11.00		8.00			10.00	77.97	1.42	0.27	13.59		0.03	0.03	0.33	3.27	0.03
P194	Mt Charter				130.00					57.30	7.04	0.67	15.19	0.16	5.56	8.00	1.81	0.90	0.21
MC1/A	Mt Charter	20.00		110.00		80.00			360.00	71.32	4.27	0.62	12.62	0.02	2.05	0.02		2.71	0.04
61425	Mt Charter		40.00	15.00	25.00	30.00			335.00	63.40	5.21			0.01	0.00	0.47	0.91		
58469	Mt Charter		15.00	15.00	10.00	25.00			50.00	67.20	4.57			0.02	0.00	0.48	0.67		
57830	Mt Charter			10.00		5.00			35.00	48.30	6.95			0.03	0.00	1.85	0.51		
52946	Mt Charter			15.00		10.00			20.00	67.70	8.88			0.01		0.19			
58352	Mt Charter		20.00	40.00	15.00	25.00			75.00	32.60	26.37			0.00		-0.01	0.06		

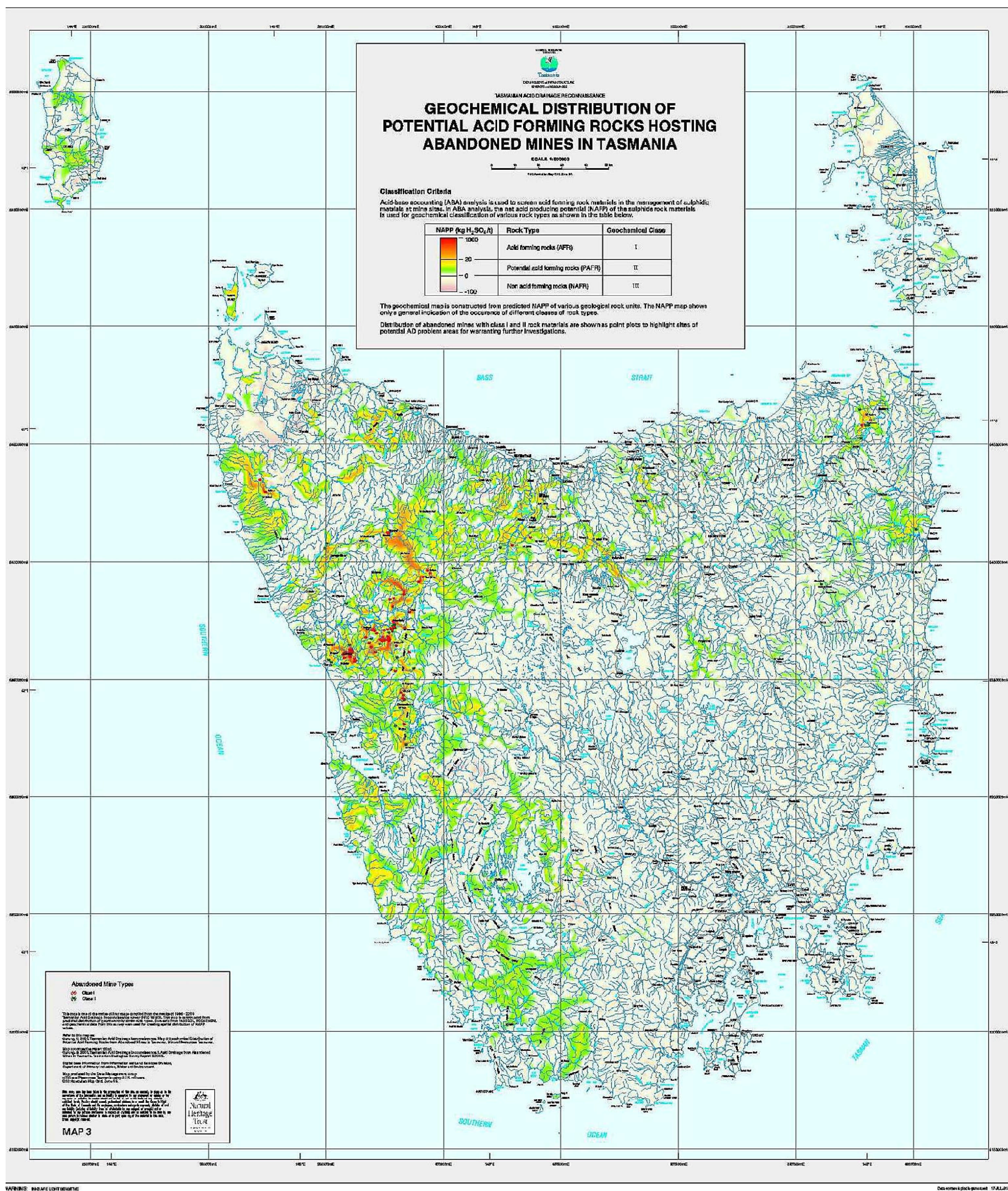
FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
401389	Mt Heemskirk		8.00	-1.00	4.00	27.00			57.00	73.54	3.98	0.25	12.35	0.07	0.27	1.70	3.50	5.25	0.05
JD2002/B	Mt Jukes	35.00		110.00		85.00			750.00	68.53	4.45	0.50	12.71	0.32	1.29	2.21		4.26	0.10
401305	Mt Jukes Road			15.00		10.00			25.00	72.76	3.50	0.23	12.40	0.23	0.75	0.62	2.70	4.19	0.01
B10140	Mt Jukes Road									71.12	9.54	0.08	11.58	0.04	0.88	0.02	0.02	4.75	0.02
M9	Mt Read	3.00		45.00		-5.00			175.00	50.49	9.32	0.96	18.39	0.16	4.73	6.46	2.19	2.46	0.11
MR96-61	Mt Read									73.97	1.82	0.31	14.36	0.05	0.60	0.17	3.28	2.92	0.05
MR96-97	Mt Read	10.00		90.00		15.00			210.00	71.17	6.98	0.26	11.67	0.08	1.24	0.01	0.03	5.02	0.04
RE1/C	Mt Read	35.00		100.00		130.00			450.00	62.63	4.54	0.45	14.87	0.13	2.65	3.84	2.77	2.68	0.06
MR96-49	Mt Read			95.00		5.00			80.00	72.46	2.22	0.30	13.42	0.62	2.19	0.10	0.03	4.87	0.05
MR96-57	Mt Read	20.00		75.00		5.00			170.00	29.42	2.54	0.34	10.12	2.66	14.87	17.24	0.03	0.06	0.12
MR96-64	Mt Read	70.00		95.00		15.00			120.00	71.22	3.70	0.33	13.74	0.47	0.97	0.66	1.37	4.01	0.06
MR96-48	Mt Read	20.00		85.00		5.00			110.00	73.04	2.09	0.29	12.76	0.27	1.14	1.40	0.96	4.33	0.05
MR96-93	Mt Read	6.00		185.00		10.00			140.00	71.92	2.24	0.53	13.95	0.01	1.19	0.01	0.05	4.44	0.08
MR96-56	Mt Read	20.00		60.00		-5.00			123.00	44.31	1.59	0.51	14.87	0.92	8.14	10.52	0.11	3.28	0.12
MR96-53	Mt Read	35.00		100.00		135.00			445.00	72.58	5.27	0.29	12.95	0.17	1.10	0.01	0.03	3.67	0.05
WSP3/D	Mt Read			100.00		30.00			100.00	60.71	6.11	0.68	15.07	0.10	2.78	3.06	4.40	3.03	0.16
MR96-51	Mt Read	15.00		80.00		5.00			165.00	72.42	5.13	0.30	12.22	0.18	1.39	0.01	0.03	3.67	0.04
MR96-59	Mt Read	35.00		100.00		115.00			285.00	61.94	3.05	0.55	17.39	0.62	2.87	1.59	0.47	4.17	0.11
MR96-59	Mt Read	35.00		100.00		115.00			285.00	61.94	3.05	0.55	17.39	0.62	2.87	1.59	0.47	4.17	0.11
MR96-58	Mt Read	10.00		45.00		-5.00			130.00	81.26	1.86	0.33	9.41	0.02	0.65	0.13	0.03	3.10	0.08
MR96-52	Mt Read	10.00		80.00		5.00			160.00	57.91	16.71	0.32	11.34	0.82	4.43	0.01	0.05	0.65	0.02
MR96-50	Mt Read	10.00		85.00		5.00			155.00	76.19	4.53	0.22	8.55	0.09	1.11	0.03	0.05	3.08	0.04
B2035	Mt Darwin	4.00	24.00	1.00	4.00	3.00			8.00	56.33	24.48	0.18	12.38	0.02	2.39	0.13	0.97	0.36	0.04
401121	Murchison Dam Road	3.00	15.00	10.00	170.00	25.00			200.00	69.69	6.73	0.25	12.21	0.10	1.13	0.20	1.71	4.32	0.03
34227	Murchison Dam Road		10.00	15.00		10.00			20.00	74.00	3.62	0.35	8.96	0.17	1.26	2.79	0.05	4.25	0.08
401102	Murchison Dam Road	54.00	35.00	20.00	185.00	25.00			75.00	60.52	6.16	0.75	14.42	0.15	3.14	2.19	4.28	3.56	0.05
401055	Murchison Dam Road		40.00	10.00	15.00	10.00			110.00	62.02	8.13	0.82	13.35	0.03	4.23	-0.01	0.40	2.86	0.20
34224	Murchison Dam Road		15.00	10.00	10.00	30.00			150.00	71.20	2.89	0.38	10.67	2.36	1.00	1.29	0.07	4.44	0.10
401063	Murchison Dam Road	4.00	15.00	10.00	150.00	20.00			20.00	75.97	4.96	0.34	9.67	0.18	1.41	0.17	0.11	3.26	0.15
401123	Murchison Dam Road	5.00	20.00	5.00	70.00	25.00			145.00	60.08	11.76	0.43	14.36	0.27	2.65	0.15	0.33	4.61	0.01
401059	Murchison Dam Road		15.00	5.00	15.00	20.00			70.00	66.13	3.82	0.40	13.51	0.15	1.54	2.75	2.43	3.30	0.18
401124	Murchison Dam Road	6.00	20.00	5.00	130.00	50.00			220.00	66.20	9.12	0.43	11.19	0.18	2.51	1.22	0.25	3.39	0.02
401233	Murchison Highway		30.00	20.00	15.00	145.00			160.00	75.23	5.12	0.44	8.84	0.02	3.08	-0.01	0.40	1.26	0.02
401236	Murchison Highway		20.00	15.00	10.00	65.00			100.00	76.66	1.34	0.25	12.86	0.01	0.85	-0.01	0.36	3.51	0.01
401196	Murchison Highway			40.00		10.00			55.00	42.84	13.71	1.00	20.93	0.34	6.67	0.46	4.73	0.52	0.01
401203	Murchison Highway		15.00	15.00	10.00	45.00			65.00	55.13	6.55	0.86	20.50	0.09	2.10	0.92	0.49	0.97	0.02
401205	Murchison Highway		40.00	25.00	15.00	30.00			55.00	50.38	9.50	0.66	18.42	0.21	6.15	5.94	1.10	1.62	0.02
401199	Murchison Highway		45.00	20.00	35.00	35.00			210.00	40.25	12.82	0.74	18.54	0.34	10.94	6.65	0.57	0.66	0.03
401206	Murchison Highway		25.00	25.00	110.00	20.00			40.00	63.52	5.14	0.61	14.10	0.12	2.75	2.51	2.67	2.86	0.02

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
401337			11.00		14.00	21.00	-4.00		54.00	71.58	1.36	0.93	16.50	0.01	1.21	0.11	0.20	4.82	0.12
401338	Murchison Highway						7.00			60.93	12.46	1.92	12.42	0.10	3.13	1.12	2.50	0.98	0.16
401208	Murchison Highway		40.00	25.00	20.00	35.00			20.00	65.05	5.21	0.54	14.82	0.10	2.16	3.47	3.94	2.98	0.03
401009	Murchison Highway		20.00	80.00	15.00	100.00			305.00	66.48	4.87	0.40	15.28	0.07	1.14	0.21	5.13	3.05	0.20
401244	Murchison Highway	44.00	20.00	10.00	15.00	30.00			45.00	81.16	3.03	0.17	8.38	0.05	1.17	-0.01	0.36	2.29	0.01
401220	Murchison Highway		32.00	73.00	107.00	5101.00			8651.00	71.15	4.84	0.31	14.06	0.10	1.12	0.05	0.17	5.05	0.01
401336	Murchison Highway		46.00	69.00	150.00				120.00	79.15	4.90	0.40	8.77	0.02	1.79	0.01	0.17	2.10	0.03
34215	Murchison mine		15.00	20.00	10.00	10.00			35.00	65.00	4.77	0.50	16.92	0.04	1.67	0.02	0.77	5.10	0.08
31499	Newton Creek	11.00	53.00	370.00	390.00	-4.00	-3.00		95.00	67.30	4.90	0.56	15.15	0.05	1.73	0.23	2.18	2.71	0.14
31497	Newton Creek		19.00	10.00	-2.00	6.00		10.00	180.00	61.30	5.31	0.56	18.01	0.10	1.67	0.83	1.25	5.10	0.25
F7	North Motton			50.00		175.00			145.00	47.20	13.94	1.86	13.11	0.25	6.41	9.40	3.10	0.25	0.16
401114	Pieman Road		17.00	69.00	38.00	107.00			133.00	73.81	2.07	0.25	13.10	0.05	0.49	0.23	4.57	3.28	0.01
401108	Pieman Road			10.00		15.00			70.00	63.47	6.56	0.72	16.10	0.15	2.21	0.34	3.19	2.94	0.05
401118	Pieman Road		45.00	280.00	96.00	-4.00	-3.00		92.00	73.19	2.09	0.23	13.06	0.05	0.40	0.56	2.78	5.32	0.01
401117	Pieman Road		6.00	13.00	3.00	6.00		10.00	120.00	76.18	1.87	0.18	12.25	0.02	0.37	0.46	3.60	2.67	0.01
401167	Pieman Road	2.00	10.00	5.00	50.00	20.00		-1.00	30.00	69.41	5.50	0.40	14.64	0.14	1.72	0.23	0.31	4.13	0.01
401162	Pieman Road		1.00	1.00	13.00	1.00			15.00	69.29	3.18	0.10	11.75	0.14	0.60	4.55	2.45	2.63	
Preston	Preston Road	3.00		100.00		20.00			125.00	60.60	6.13	0.76	15.65	0.14	3.08	2.56	4.99	2.63	0.14
401278	Que River			10.00		10.00			25.00	73.95	2.88	0.30	14.10	0.03	0.41	0.02	2.22	2.33	0.01
401274	Que River	3.00		5.00		10.00			25.00	61.25	7.27	0.33	15.03	0.23	6.34	0.18	2.91	0.68	0.01
401281	Que River			-5.00		-5.00			45.00	64.08	5.31	0.72	7.78	0.31	2.34	6.65	0.74	1.70	0.02
HAT5/A	Que River	7.00		95.00		55.00			170.00	54.31	6.46	0.42	12.41	0.19	7.98	6.12	3.88	0.18	0.18
401277	Que River			15.00		35.00			40.00	73.73	3.44	0.20	11.69	0.15	0.95	2.19	0.92	2.84	0.01
P199	Que River									72.99	1.61	0.25	12.86	0.10	0.39	2.61	1.81	2.60	0.08
P196	Que River									51.66	6.68	0.63	16.26	0.13	2.67	6.33	1.29	2.90	0.53
P149	Que River			11.00		8.00			24.00	58.98	7.09	0.54	14.89	0.26	4.26	6.33	3.15	1.47	0.26
401267	Que River									49.61	9.06	0.55	15.65	0.18	4.00	5.71	1.50	2.23	0.07
401264	Que River			10.00		26.00			105.00	70.29	4.17	0.50	14.35	0.03	2.41	0.00	0.40	3.02	0.02
QR13	Que River				24.00					72.92	4.17	0.14	11.82	0.02	1.42	0.06	0.12	1.74	0.01
QR1001/B	Que River			90.00		260.00			2550.00	62.92	7.40	0.55	14.09	0.20	3.54	0.75	0.04	3.08	0.13
401270	Que River									65.86	3.55	0.23	13.03	0.10	1.36	3.81	1.75	2.74	0.01
HAT4-141	Que River	6.00		100.00		185.00			3050.00	66.73	6.22	0.59	12.83	0.21	2.50	0.33	0.31	3.16	0.11
401275	Que River			5.00		10.00			35.00	67.55	2.77	0.46	12.30	0.05	1.82	1.17	0.40	3.33	0.02
QR1	Que River			10.00	9.00				60.00	68.92	7.77	0.50	11.05	0.08	2.47	0.15	0.05	2.31	0.13
QR11	Que River				160.00					75.05	2.37	0.40	11.10	0.02	0.76	0.01	0.06	2.07	0.03
QR6	Que River									67.93	5.95	0.56	12.42	0.01	1.56	0.10	0.06	2.53	0.05
QR97/G	Que River			80.00		25.00			115.00	57.44	6.44	0.55	13.77	0.46	5.36	1.21	0.01	3.71	0.15
QR97/F	Que River			60.00		35.00			130.00	59.56	6.37	0.63	16.70	0.16	3.76	1.87	0.55	4.02	0.15
401276	Que River			10.00		15.00			70.00	60.75	3.04	0.69	11.15	0.17	1.92	2.25	0.25	2.73	0.02

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
321402	Que River			48.00	31.00				69.00	46.70	8.15	0.58	11.80	0.15	7.30	10.30	2.50	0.53	0.79
NC520	Reece Dam		23.00		70.00					46.23	9.51	0.84	15.48	0.17	9.09	12.47	2.24	0.10	0.09
NC516	Reece Dam		47.00		55.00					50.14	12.73	1.73	14.90	0.13	7.39	4.68	1.10	0.69	0.15
N358	Reece Dam		44.00		76.00					48.33	12.26	1.30	13.03	0.17	7.87	8.11	2.30	1.03	0.30
NC513	Reece Dam		39.00		81.00					49.23	11.43	1.69	14.83	0.16	7.11	8.46	1.31	0.28	0.19
NC493	Reece Dam		43.00		118.00					49.49	11.14	1.83	14.55	0.15	6.56	7.61	1.57	0.24	0.39
NC482	Rocky River		50.00		108.00					50.91	9.65	0.20	4.07	0.17	13.33	12.41	1.67	0.53	0.37
NC487	Rocky River									64.94	7.14	1.66	13.18	0.02	1.69	0.58	8.79	0.16	0.44
32499	Rosebery		45.00	16.00	72.00	1.00			149.00	77.10	1.73	0.32	11.72	0.09	0.61	1.31		1.96	0.06
7(1)	Rosebery	20.00		75.00		25.00			140.00	48.68	15.39	2.93	12.46	0.19	6.78	2.84	4.82	0.86	0.31
BP273/C	Rosebery	15.00		60.00		220.00			720.00	68.68	3.47	0.63	15.76	0.06	1.96	0.35	0.85	4.05	0.09
8 (1)	Rosebery	4500.00		240.00		6400.00			8900.00	68.19	2.39	0.40	16.52	0.01	1.53	0.18	7.84	0.14	0.10
BD269/B	Rosebery	2.00		85.00		25.00			105.00	64.15	4.04	0.47	14.80	0.05	2.60	2.78	0.54	3.65	0.09
30386	Rosebery		12.00	13.00	-3.00	-4.00			51.00	65.50	4.91	0.63	14.89	0.31	1.85	1.78		2.76	0.14
DP288/C	Rosebery			75.00		680.00			1500.00	72.78	1.68	0.27	13.05	0.22	0.60	1.16	1.74	5.13	0.05
H955/B	Rosebery	7.00		85.00		85.00			205.00	72.05	2.11	0.35	13.99	0.33	2.08	0.45	2.21	4.10	0.04
33706	Rosebery		16.00	-4.00	37.00	513.00			746.00	77.60	2.70	0.27	10.85	0.09	1.01	0.20		4.01	0.03
33708	Rosebery		38.00	81.00	81.00	-4.00	-3.00		50.00	61.20	3.12	0.51	20.60	0.07	2.89	0.10		6.92	0.06
31909	Rosebery		11.00	4.00	24.00	1.00			31.00	71.40	3.27	0.34	12.81	0.68	1.02	0.22	0.32	4.39	0.04
BP272/D	Rosebery	30.00		110.00		105.00			285.00	53.63	6.58	0.65	10.30	0.16	4.66	7.45	0.65	2.32	0.17
31917	Rosebery		10.00	45.00	19.00	63.00			375.00	59.50	5.49	0.63	16.19	0.08	3.17	1.82	1.40	3.38	0.13
71R/B	Rosebery	6.00		85.00		10.00			125.00	65.87	5.00	0.82	12.50	0.05	2.79	2.56	0.47	2.83	0.11
80R/E	Rosebery			125.00		10.00			105.00	63.92	7.03	0.78	11.86	0.07	2.26	3.82	0.53	2.55	0.18
NC291	Savage River		75.00		398.00					45.90	11.51	1.78	13.47	0.17	8.79	8.26	3.92	0.97	0.65
NC69	Savage River				92.00					37.68	17.86	0.66	5.60	0.17	25.76	3.33	0.10		0.50
SM165	Sheffield area	2.00		22.00		16.00			62.00	47.58	11.65	1.28	16.91	0.35	3.86	7.53	3.30	2.78	0.90
903840	Smithton										0.19	-0.01	0.01	0.01	23.42	30.01	0.11		0.02
1055656	Smithton						9.00	-4.00		5.30	0.72	0.00	1.00		20.50	28.30			
1055658	Smithton						3.00			3.70	0.68	0.00	0.45		19.90	29.30			
1055657	Smithton						20.00	6.00		6.20	0.77	0.00	0.50		19.90	27.90			
1055653	Smithton						52.00			7.00	1.08	0.00	1.30		19.80	27.90			
31296	Sock Creek		30.00	45.00		185.00			1650.00	76.20	1.87	0.29	13.04	0.03	0.60	0.42	0.07	3.47	0.05
P210	Sock Creek		20.00	25.00		20.00			380.00	74.20	2.54	0.26	13.40	0.06	0.33	0.14	4.13	3.58	0.04
31269	Sock Creek		5.00	10.00		10.00			20.00	73.00	1.56	0.24	12.28	0.08	0.82	2.07	0.57	3.73	0.03
DBS22	Sock Creek	37.00	25.00	15.00	185.00	35.00			40.00	41.20	7.32	0.54	11.37	0.53	5.98	13.33	0.72	1.65	0.36
31285	Sock Creek		5.00	15.00		10.00			70.00	73.50	2.12	0.23	12.25	0.10	1.13	1.32	1.68	2.78	0.03
P209	Sock Creek	3.00	20.00	5.00	40.00	20.00			20.00	73.85	1.49	0.61	14.19	0.04	0.27	0.30	7.28	0.93	0.13
32721	Sock Creek		15.00	15.00		10.00			115.00	65.90	7.90	0.84	12.20	0.06	2.40	0.07	0.10	2.79	0.13
401317A	Strahan-Zeehan Highway			59.00	294.00					81.47	3.14	0.30	5.46	0.01	1.10	1.85	0.37	1.13	0.17

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
401021	Trial Harbour		21.00	19.00	22.00	17.00			71.00	50.08	5.34	0.50	1.51	0.27	15.05	23.20	0.05	0.05	0.40
401020	Trial Harbour		7.00	-1.00	2.00	29.00			58.00	31.78	20.07	0.10	0.44	0.31	30.57	0.05		0.05	0.18
401017	Trial Harbour		5.00		-1.00	38.00			28.00	34.56	4.61	0.07	0.09	0.10	38.79	2.00	0.05	0.10	0.17
401022	Trial Harbour		19.00	16.00	28.00	14.00			67.00	56.86	7.48	1.26	9.26	0.23	9.44	10.59	0.64	0.37	0.15
401318	Trial Harbour Road			69.00	380.00					83.58	3.03	0.51	6.98	0.01	0.55	0.00	0.17	1.51	0.01
401186	Tullabardine	4.00	15.00	10.00	55.00	20.00			25.00	58.27	7.00	0.66	16.62	0.10	4.76	2.00	3.72	1.44	0.02
401183	Tullabardine		15.00	25.00		45.00			70.00	80.31	0.87	0.07	12.14	0.01	0.50	-0.01	0.31	3.77	
624204	Tyndall Mine		39.00	13.00	280.00	4.00			56.00	66.40	4.39	0.48	14.01	0.07	1.06	2.58	2.00	3.64	0.13
31584	Whip Spur	32.00		9.00	14.00					63.60	3.83	0.71	19.36	0.04	2.44	0.03	0.18	2.53	0.06
C23Q	Whip Spur		30.00	25.00	190.00	40.00			240.00	69.70	3.18	0.39	13.00	0.06	0.78	2.10	3.60	3.40	0.06
401210	Williamsford	2.00	10.00	-1.00	35.00	10.00		-1.00	105.00	79.65	2.23	-0.01	11.23	0.12	0.61	-0.01	0.18	3.78	0.01
401214	Williamsford		4.00		1.00	34.00			40.00	78.00	2.06	0.09	12.72	0.01	1.03	0.05	0.56	2.84	
401213	Williamsford		2.00	-1.00	-1.00	31.00			58.00	79.84	0.25	1.38	12.86	0.01	0.25	-0.01	0.58	3.06	0.01
278	Wilmot					22.00				71.97	3.65	0.36	13.08	0.03	1.36	0.02	0.03	6.69	0.03
388	Wilmot					23.10				71.30	6.03	0.28	11.50	0.04	1.28	0.04	0.07	5.61	0.04
167a	Wilmot					18.00				80.59	2.12	0.22	10.84	0.04	0.52	0.04	0.02	3.32	0.03
345	Wilmot					21.30				60.48	6.99	0.85	15.85	0.08	1.64	0.09	0.10	9.50	0.22
327	Wilmot					20.80				76.92	1.68	0.20	12.43	0.01	0.13	0.18	3.34	3.39	
162	Wilmot					16.00				72.31	2.12	0.36	13.43	0.14	0.67	1.68	2.78	3.46	0.07
293	Wilmot					17.10				78.55	1.67	0.20	12.37	0.01	0.31	0.01	2.78	2.42	0.01
294	Wilmot					16.00				80.83	1.68	0.18	11.49	0.01	0.20	0.02	0.14	3.07	0.04
300	Wilmot					17.00				80.99	2.22	0.17	10.95	0.04	0.14	0.01	0.06	2.94	0.02
289	Wilmot					19.00				81.22	2.32	0.17	10.26	0.01	0.39	0.02	0.05	3.40	0.03
157	Wilmot					12.00				64.19	7.77	0.94	12.40	0.12	3.97	1.51	0.80	2.53	0.19
169	Wilmot					22.00				66.38	4.96	0.56	14.37	0.15	1.86	1.89	1.41	2.74	0.11
416	Wilmot					19.00				63.95	4.76	1.00	18.01	0.03	1.26	0.07	3.29	3.29	0.13
297	Wilmot					18.00				59.39	13.76	0.80	11.01	0.08	4.98	1.34	0.10	0.51	0.89
167b	Wilmot					19.50				55.30	10.91	1.56	13.23	0.08	7.98	0.52	1.13	1.86	0.22
J437	Winterbrook Moina	60.00		1150.00		200.00			655.00	63.75	5.79	0.55	14.28	0.10	2.60	1.87	5.26	2.61	0.21
V371	Winterbrook Moina	15.00		15.00		5.00			80.00	40.90	8.35	1.08	15.52	0.47	4.57	11.25	3.36	1.49	0.33
J457	Winterbrook Moina	59.00		85.00		255.00			520.00	63.59	5.54	0.62	14.48	0.10	2.52	4.11	3.49	2.43	0.20
J413	Winterbrook Moina			1400.00		11900.00			34200.00	62.40	5.73	0.67	13.71	0.10	2.53	2.84	4.40	1.64	0.18
J373	Winterbrook Moina	500.00		805.00		71800.00			11900.00	64.30	5.47	0.60	13.90	0.09	2.34	2.68	5.46	2.00	0.18
J461	Winterbrook Moina	305.00		40.00		30.00			405.00	63.00	5.76	0.72	14.43	0.10	2.65	4.13	3.48	2.42	0.25
J544	Winterbrook Moina	8.00		10.00		-5.00			30.00	39.13	7.29	1.72	13.89	0.47	2.21	15.01	3.31	1.49	0.37
V517	Winterbrook Moina	170.00		20.00		25.00			55.00	48.86	9.37	1.00	15.55	0.15	7.84	10.61	2.20	0.66	0.28
J439	Winterbrook Moina	800.00		75.00		3900.00			4750.00	61.93	5.54	0.72	15.60	0.11	2.57	1.85	7.40	0.87	0.18
V622	Winterbrook Moina	18.00		25.00		50.00			130.00	65.18	5.94	0.61	13.19	0.11	2.42	5.42	1.15	3.69	0.28
C1736	Wynyard		20.00	30.00	15.00	45.00			195.00	47.08	10.36	1.91	13.11	0.16	10.84	8.41	2.44	1.29	0.44

FIELD NO.	LOCALITY	As	Co	Cu	Ni	Pb	Sn	W	Zn	Si	Fe	Ti	Al	Mn	Mg	Ca	Na	K	P
MB96-20		70.00		100.00		205.00			585.00	65.53	4.29	0.54	14.05	0.16	1.97	2.02	1.86	5.86	0.11
MB96-26		170.00		55.00		35.00			115.00	65.16	6.17	0.58	14.21	0.09	3.04	0.34	2.02	4.78	0.10
MB96-14		35.00		120.00		190.00			450.00	69.67	6.51	0.50	12.56	0.10	2.15	0.38	0.06	4.57	0.10
MB96-31		40.00		120.00		15.00			155.00	44.12	19.34	0.79	17.11	0.22	4.90	0.17	0.13	6.33	0.13
MB96-32		60.00		95.00		55.00			220.00	77.14	2.69	0.19	10.05	0.07	0.60	0.05	0.18	7.38	0.04
MB96-6				85.00		-5.00			155.00	61.20	6.81	0.68	14.20	0.53	2.32	3.03	1.83	4.55	0.19
MB96-19		55.00		95.00		330.00			340.00	69.93	3.22	0.44	13.77	0.13	1.46	0.46	0.86	7.17	0.10
MR96-115					216.00					65.74	9.59	0.37	13.13	0.35	1.63	0.01	0.03	4.14	0.06
MB96-24		3700.00		95.00		155.00			665.00	51.31	12.90	0.56	15.10	0.39	8.22	0.39	0.48	3.94	0.10
MB96-27		95.00		35.00		40.00			130.00	68.76	3.57	0.52	15.07	0.11	1.78	0.26	2.50	5.45	0.11
MB96-1		10.00		85.00		25.00			165.00	59.69	11.21	0.72	14.61	1.03	2.88	0.18	0.05	3.25	0.18
M39		20.00		65.00		90.00			185.00	52.39	9.27	0.55	14.87	0.21	7.29	6.09	5.07	0.24	0.05
M39		20.00		65.00		90.00			185.00	52.39	9.27	0.55	14.87	0.21	7.29	6.09	5.07	0.24	0.05
M10		6.00		70.00		5.00			110.00	65.89	4.22	0.51	15.70	0.08	1.35	0.77	3.81	3.49	0.13
MB96-25		830.00		55.00		115.00			200.00	61.41	7.68	0.54	15.38	0.11	2.87	0.40	0.67	8.10	0.11
M33		2.00		26.00	26.00	5.00			42.00	62.93	5.25	0.68	16.28	0.07	3.10	1.15	1.96	4.74	0.12
M45		30.00		65.00		110.00			200.00	60.15	6.69	0.73	16.55	0.12	3.08	4.47	2.58	1.53	0.08
M24		4.00		80.00		5.00			120.00	66.52	3.92	0.49	15.30	0.06	1.22	2.17	3.78	3.35	0.12
HAT9-118		10.00		95.00		15.00			60.00	73.86	2.08	0.23	13.04	0.03	0.48	1.57	3.32	2.32	0.05
MJ96-13		120.00		95.00		40.00			280.00	75.20	2.54	0.31	13.29	0.03	0.71	0.08	5.42	2.10	0.06
HL541-306				65.00		33.00			148.00	64.67	6.63	0.56	11.46	0.07	2.75	2.71	0.12	2.57	0.14
MAC31-78				20.00		40.00			310.00	64.70	5.56	0.69	11.77	0.05	2.89	2.82	0.09	2.72	0.16
HL26-286		7.00		85.00		195.00	4.00		210.00	58.02	9.63	0.58	14.58	0.03	1.06	1.14	6.60	0.47	0.13



Map 3

(Note: this map is a low resolution image only. Full scale maps may be purchased from Mineral Resources Tasmania)