

Appendix II-1 Main Points of the **Zambian Mining Act**

1. Large-scale prospecting license	<ul style="list-style-type: none"> • Exclusive rights for 2 years, renewable twice for 2-year terms • Not to exceed 1,000 km² • Transferable
2. Large-scale mining license	<ul style="list-style-type: none"> • Exclusive rights for 25 years, renewable for an indefinite number of 25-year periods. • Not to exceed 250 km² • Transferable
3. Large-scale gemstone license	<ul style="list-style-type: none"> • Exclusive rights for 10 years, renewable for 10-year periods many times • Greater than 4 km² up to maximum of 250 km²
4. Small-scale prospecting permit	<ul style="list-style-type: none"> • Exclusive rights for 2 years, not renewable • Not to exceed 10km²
5. Small-scale mining license	<ul style="list-style-type: none"> • Exclusive rights for 10 years, not renewable • Not to exceed 4 km²
6. Small-scale gemstone license	<ul style="list-style-type: none"> • Exclusive rights for 10 years, renewable for 10-year periods many times • Not to exceed 4 km²
7. Artisanal mining right	<ul style="list-style-type: none"> • Exclusive rights for exploration and mining operation for 2 years, not renewable • Not to exceed 6.6 hectares
4. Royalties	<ul style="list-style-type: none"> • 3% of gross value
5. Taxes	<ul style="list-style-type: none"> • Corporate tax is 30% on profits • Zero % tax on dividends for 5 years from year of first declaration of dividends. • Zero % import duty on raw materials, capital good, machinery for 5 years • Deferment of VAT (16%) on machinery and equipment • Free repatriation of profits and dividends without restriction

Appendix II-2 Structure of Mineral Rights in Zambia

Type of Right	LARGE-SCALE PROSPECTING LICENSE (PL)
Place of Application	Registry for Mineral Rights (RMR)
Required Documents or Data	<ul style="list-style-type: none"> - Prescribed form and payment of fee. - Name and applicant information. - Description and plan for the applied area. - Statement about the target minerals. - Mineral rights previously granted to the applicant - Such further information as may be prescribed by the Minister.
Validity	Two years for the initial period, and two renewals for two additional years each, plus one more years. Maximum total seven years.
Maximum Surface	1,000 km ² up to a maximum cumulative of 5,000 km.
Rights Granted	Exclusive rights for prospecting (for the minerals specified in the license).
Other Comments	50% relinquishment is mandatory for renewal.

Type of Right	LARGE-SCALE MINING LICENSE
Place of Application	Registry for Minerals Rights (RMR)
Required Documents or Data	<ul style="list-style-type: none"> - Prescribed form and payment of fee. - Period for which the license is sought. - Statement about the deposit, including reserves and mining conditions. - Programme for mining operations and capital investment. - Environmental Management plan. - Expected infrastructure requirements. - Plans for employment of Zambian citizens. - Description of the land and a plan of the proposed mining area. - Such other information as the Minister may reasonably require.
Validity	Twenty-five years and additional renewal periods of twenty-five years each.
Maximum Surface	250 km ²
Rights Granted	Exclusive rights for prospecting and mining operations in the granted area.

Type of Right	LARGE- SCALE GEMSTONE LICENSE
Place of Application	Registry for Mineral Rights (RMR)
Required Documents or Data	<ul style="list-style-type: none"> - Prescribed form and payment of fee. - Area description and sketch. - Statement of the gemstone deposit. - Programme for mining operations. - Such other information as the Director may reasonably require.
Validity	Ten years, and additional renewals of ten years each. Total duration, unlimited.
Maximum Surface	25 km ²
Rights Granted	Exclusive rights for mining operations for gemstones in the granted area.
Other Comments	The large-scale gemstone license is transferable.

Type of Right	SMALL SCALE PROSPECTING PERMIT
Place of Application	Registry for Mineral Rights (RMR)
Required Documents or Data	<ul style="list-style-type: none"> - Prescribed form and payment of fee. - Statement of the ores, other than gemstones to be prospected. - Description of the land and a plan of the proposed mining area. - Sum to be expended. - Mineral rights previously granted to the applicant.
Validity	Two years, not renewable.
Maximum Surface	10 km ² .
Rights Granted	Exclusive rights for prospecting operations in the granted area, excepting gemstones.

Type of Right	SMALL SCALE MINING LICENSE
Place of Application	Registry for Mineral Rights (RMR)
Required Documents	<ul style="list-style-type: none"> - Prescribed form and payment of fee. - Description of the land and a plan of the proposed mining area. - Identify the relevant prospecting permit. - Description of the mineral deposit. - Programme of mining operations. - Applied duration. - Such other information as the Director may reasonably require.
Validity	Ten years, not renewable.
Maximum Surface	400 hectares.
Rights Granted	Exclusive rights for mining operations in the area, excepting gemstones.
Other Comments	It can be transformed into a large-scale mining license.

Type of Right	SMALL-SCALE GEMSTONE LICENSE
Place of Application	Registry for Mineral Rights (RMR)
Required Documents or Data	<ul style="list-style-type: none"> - Prescribed form and payment of fee. - Area description and sketch. - Statement of the gemstone deposit. - Programme for mining operations. - Such other information as the Director may reasonably require.
Validity	Ten years, and additional renewals of ten years each. Total duration, unlimited.
Maximum Surface	400 hectares
Rights Granted	Exclusive rights for mining operations for gemstones in the granted area.
Other Comments	It can be transformed into a large-scale mining license.

Type of Right	ARTISANAL MINING RIGHT
Place of Application	Regional Mining Bureau
Required Documents or Data	- Prescribed form and payment of fee.
Validity	Two years, not renewable.
Maximum Surface	6.68 hectares
Rights Granted	Exclusive rights for exploration and mining operations in the granted area.
Other Comments	A zone description and sketch map are not mandatory with the application, but must be attached to the right itself.

Appendix II-3 Prescribed Fees and Area Charges of Mining Rights

PRESCRIBED FEES

Type of Mining Right or Application	Application fee in fee units	License fee in fee units
Large-scale Prospecting License	2,000	10,000
Large- scale Mining License	2,000	10,000
Large- scale Gemstone License	2,000	10,000
Prospecting Permit	500	2,000
Small-scale Mining License	500	2,000
Small scale Gemstone License	500	2,000
Artisan's Mining Right	250	500
Transfer of Prospecting, Large-scale Mining and Large-scale Gemstone Licenses	2,000	10,000
Transfer of Small-scale Mining, Prospecting Permit or Small-scale Gemstone licenses	500	2,000
Alteration of Prospecting, Large-scale Mining and Large-scale Gemstone Licences	500	2,500
Alteration of Small-Scale Mining, Prospecting Permit or Small-scale Gemstone Licenses	200	750
Alteration of Artisan' Mining Right	100	200

(fee unit = ZMK180.00)

AREA CHARGES

GRZ Fee Units	Year 1-2	Year 3-4	Year 5-6	Year 7 and later years
Prospecting License (per square km per year)	56	112	224	448
Large-scale Mining License (per square km per year)	200	200	200	200
Large-scale Gemstone License (per square km per year)	56	100	150	200
Prospecting Permit (per square km per year)	10	15	20	-
Small-scale Mining License (per square km per year)	10	10	10	10
Small-scale Gemstone License - exempt in Year 1 (per hectare per year)	100	100	150	200
Artisan's Mining Right (per licence area)	10	10	-	-

(fee unit = ZMK180.00)

Appendix II-4 Comparison of Mining Rights and Tax Regimes in African Countries

	Country	Zambia	Botswana	Namibia	Tanzania	Mauritania
Prospecting (Exploration)	Duration for approval	2 years, twice renewable for 2 years each time		Subject to updating	Within 4 weeks	3 years, twice renewable for 3 years each time
	Transfer of concession	Transferable	Transferable	Transferable	Transferable, 50% first & second renewal	Transferable with agreement from Ministry of Mines
Mining	Initial term for mining	25 years	25 years	25 years	5 years SML- 25 years ML- 10 years	30 years
	Renewals	25 years	ML- every 25 years	Renewable	Every 5 years SML- every 25 years ML- every 10 years	10 years
	Mining rights transfer	Transferable	Transferable	Transferable	Transferable	Transferable
Fiscal Regime	Corporate income tax	Was 25% on profits, increased to 30% in April 2008	25% with variable-rate tax formula which is $70 - 1500/X$ where the profitability ratio is the taxable income as a percentage	25 to 15%: Tax rate: $(>25\%)=60 - (480/(\text{gross income}/\text{taxable income}))$	30%	30% with 3 year initial tax holiday
	Dividend withholding tax	0% gone to 15%	15%	10% not deductible	10%	16% on exported dividends
	Royalties	0.6% of net back value, increased to 3% in April 2008	Precious stones, 10%; Precious metals, 5%; others, 3% of gross market value	Precious stone group, 10% of sale; rough or unprocessed mineral or dimension stone group, 5%; and other minerals, up to 5%	3.0% of net back value	Depends on mineral: 0% (aggregates) to 7% (diamonds); Au 3%, non-ferrous metals 1.5-2.5%
	Import duty	Mining equipment is duty-free	5% plus surcharge rate	May exist	5% is the cap limit	Exempt from 5% duty for 5 years

Fiscal Regime	Export duties on minerals	None	None	None on minerals, 5% on dimension stone blocks, precious stones negotiated	None	None
	Value added tax (VAT)	Exempted from VAT 0% on export.	None	5 to 10% GST	Exempt where products are for exports	14%
	Tax holiday	None	Negotiable	None	None	3 years
	Exchange control	None	Yes	Some restrictions may apply	Minor control for statistical purposes	Yes

Appendix II-5 (1) Mineral Development and Exploration Projects in Zambia

Company	Commodity	Project name	Location	Stage	Remarks
1 Equinox Minerals (Australia-Canada)	Copper	Lumwana	65km west of Solwezi	Mine construction	<ul style="list-style-type: none"> - Antiformal inliers surrounded by metasediments - Disseminated sulfides dominated by chalcopyrite and bornite - Measured and Indicated Reserves of 321Mt at 0.73% Cu - Measured and Indicated Resources of 5.97B lbs Cu, Inferred Resources of more than 7.8B lbs Cu - Expects to produce concentrate during December 2008 with annual production of 169Kt Cu in the first 6 years - Average of 122Kt Cu/year over 37-year mine life. - Probable Reserves of 3.3Mt at 0.123% U3O8 - Inferred Resources of 2.4Mt at 0.078% U3O8
2 Albion (Australia)	Uranium			Feasibility Study	<ul style="list-style-type: none"> - The Enterprise deposit was discovered in 1969. - Plans for operations from the 2nd quarter of 2008 - Planned annual production of 8Kt Ni metal with 15Koz PGM metals, 1.4Kt Cu metal and 400t Co - Measured and Indicated Reserves: 6.7Mt at 1.23% Ni, 0.17% Cu, 0.07% Co, 0.53g/t Pd and 0.23g/t Pt; containing metals of 82Kt Ni, 11.7Kt Cu, 4.4Kt Co, 114.4Koz Pd and 50.4Koz Pt
3 AIM Resources (Australia) /BHP Billiton (Australia-UK)	Copper, gold	Mumbwa	West Central Zambia	Exploration	<ul style="list-style-type: none"> - Clastic and carbonate sediments of the Kundelungu Group of the late Proterozoic Katanga Sequence - IOCG type brecciated copper-gold vein - Airbone survey of Falcon system - Drilling results of 06% Cu and 0.11g/t Au
4 CGA Mining (Australia) /African Eagle (UK)	Copper	Mkushi	265km northeast of Lusaka	Exploration	<ul style="list-style-type: none"> - Cu mineralization occurs along the 15km long Mtuga shear zone - Estimated resource of 30Mt at 1.2% Cu, 350Kt Cu metal - Inferred Resource of 10.7Mt at 1.11% Cu

Appendix II-5 (2) Mineral Development and Exploration Projects in Zambia

Company	Commodity	Project name	Location	Stage	Remarks
5 ICS Copper Systems (Canada)	Copper	Mokambo	15km from Mufulira, Copperbelt	Advanced exploration	<ul style="list-style-type: none"> - Closed in 1970, historical resources of 24Mt at 1.47 to 1.72% Cu - Copper deposit is situated at the northeastern side of the Mufulira Syncline at the well-known Mufulira Mine - Drilling for confirmation of reserves and other potential economic mineralization
6 African Eagle Resources (UK) /Phelps Dodge Mining (Zambia)	Copper	Ndola	Surrounding the Buwana Mkubwa mine	Exploration	<ul style="list-style-type: none"> - Until 1960s prospecting, past estimated reserves 40Mt with 0.75% Cu - Lying midway between First Quantum Minerals' Frontier mine (290Mt @1.15% Cu) and Lonshi mine (5.9Mt @4.6% Cu) - Phelps Dodge funding exploration under option
7 African Eagle Resources (UK) /Copperbelt Minerals	Copper	Mikambo	90km northeast of Ndola, Surround ICS Copper System's property	Exploration	<ul style="list-style-type: none"> - Mineralised Lower Roan on eastern extension of the Mufulira Syncline - Estimated resources of 6Mt @2.4 Cu at Mokambo South, 3.8Mt @1.7 Cu at Mokambo North - Resource definition drilling commences in mid 2008
8 African Eagle Resources (UK)	Copper, gold	Sasare Eagle eye	450km east of Lusaka	Exploration	<ul style="list-style-type: none"> - Highly prospective IOCG - Copper mineralisation over strike length of 25km - Inferred Resources of 1.4 Mt at 1.2% Cu - Potential along the granite contact - Airborne EM survey planned in early 2008 - Produced 390kg Au between 1906 and 1942 at Sasare - Another target for Karoo-hosted uranium and iron ore
9 African Eagle Resources (UK)	Copper, gold	Lunga	320km northwest of Lusaka	Exploration	<ul style="list-style-type: none"> - Multiple targets including copper-gold, zinc and calcareous uranium mineralisation - Drillhole intersected 38m of 0.34-0.46% Cu and 1.72m at 2.38% Cu - Rock types indicating IOCG style environment - Airborne spectrometric data shows extensive uranium anomalies in the central part

Appendix II-5 (3) Mineral Development and Exploration Projects in Zambia

Company	Commodity	Project name	Location	Stage	Remarks
10 Zambezi Resources (Australia) / Glencore International (Switzerland)	Copper, gold	Cheowa	120km southeast of Lusaka	Pre-feasibility	<ul style="list-style-type: none"> - Indicated resources of 3.5Mt at 1.1% Cu and 0.23g/t Au - Inferred Resources of 2.9Mt at 1.1% Cu and 0.38g/t Au - Mineralisation continues to depths of at least 500m and grades may be increasing with depth
11 Zambezi Resources (Australia)	Copper, gold	Chongwe	100km east of Lusaka	Exploration	<ul style="list-style-type: none"> - Representing a new IOCG province at Mulofwe Dome
12 Caledonia Mining (Canada)	Cobalt, copper	Nama	Northwest of the Konkola Copper mine operations	Advanced exploration	<ul style="list-style-type: none"> - Indicated Resources of 121Mt at 0.047% Co and 0.043% Cu - Production from the open pit mine planned to start in 2009 - Expect output to avg. 10Kt/yr of cobalt metal - Supply 21Kt of cobalt metal equivalent to Chinese refiner over a six-year period
13 Caledonia Mining (Canada)	Copper, cobalt, gold	Kadola	West of Kapiri Mposhi	Exploration	<ul style="list-style-type: none"> - Aeromagnetic survey, soil geochemical sampling, and drilling in 1995-96 - Outline of the Kadola West Cu/Co deposit and discovery of the Eureka Cu/Au prospect
14 TEAL Exploration & Mining (Canada)	Copper	Konkola North	Copperbelt	FS	<ul style="list-style-type: none"> - Inferred resources of 107Mt at 2.30% Cu, plus 63Mt at 3.88% Cu - Implementation of DDH of 47,689m total - Planned annual copper output of 65Kt by 2012, increase from an estimated 8.5Kt in 2008
15 Luiji Gold (Canada)	Gold	Luiji Hill	120km west of Lusaka	Exploration	<ul style="list-style-type: none"> - Historical production of 990kg at Dunrobin and 225kg at Matala during World War II - Gold mineralization associated with brecciated shear zone parallel to the Mwembeshi Shear Zone - Completed a 4,159m combined RC and DDH at Dunrobin and Matala deposits - Resources of 2.6Mt at 4.2g/t Au at Matala, and of 2.4Mt at 1.8g/t Au at Dunrobin
16 Zambezi Resources (Australia)	Gold	Chakwenga	200km east of Lusaka	Exploration	<ul style="list-style-type: none"> - Drilling intercepts of 22m at 2.22g/t Au and 12m at 1.09g/t Au

Appendix II-5 (4) Mineral Development and Exploration Projects in Zambia

	Company	Commodity	Project name	Location	Stage	Remarks
17	Denison Mines (Canada)	Uranium	Mutanga	200 km south of Lusaka	Exploration	<ul style="list-style-type: none"> - Historical resources of 13.7M lbs U3O8. - 47,000m drilling underway to accurately define controls of mineralization at Mutanga and Dibwe deposits - Planned annual production of 1.5M lbs uranium
18	African Energy Resources (Australia) /Albidon (Australia)	Uranium	Njame North, Chirundu	85km south of Lusaka	Pre-feasibility	<ul style="list-style-type: none"> - Sandstone-hosted uranium deposits - Identified by ground radiometric survey and followed up with airborne radiometric survey - Mineralisation is mostly located within 50m of the surface. - Inferred Resources of 5.5Mt at 400ppm U3O8 containing 2,200t U3O8 - A large number of new targets in the prospective Upper Karoo basins
19	African Energy Resources (Australia) /Albidon (Australia)	Uranium	Kariba Valley	80km south of Lusaka	Exploration	<ul style="list-style-type: none"> - Uranium potential, coal bearing horizons up to 60-120m thick in the Luano Valley
20	Lithic Metal & Energy (Australia) /Zambezi Resources (Australia)	Uranium	Oryx	80km southeast of Lusaka	Exploration	<ul style="list-style-type: none"> - Identified by a combined aeromagnetic and radiometric survey, and confirmed an anomaly over 5km in strike length - Soil anomalies over 1000ppm U and rock chip of 6.4% U. - Trench results of 3m at 642ppm U3O8, 3m at 292ppm U3O8 and 1m at 839 U3O8
21	Lithic Metal & Energy (Australia) /Zambezi Resources (Australia)	Uranium	Mpande	60km southeast of Lusaka	Exploration	<ul style="list-style-type: none"> - Exploring an 8km long Mvula uranium radiometric anomaly - Implemented field reconnaissance of geological mapping and rock chip sampling
22	Lithic Metal & Energy (Australia)	Nickel	Mitaba Hill	100km southeast of Lusaka	Exploration	<ul style="list-style-type: none"> - Trenching at Mitaba Hill and Mitaba West has identified nickel mineralisation greater than 0.5% over several kilometers of strike length, with widths up to 150m.
23	Alberg Mining and Exploration (South Africa) /ZCCM-IH (20%)	Zinc, lead	Kabwe	Central of Zambia	Re-opening	<ul style="list-style-type: none"> - Resources; 50Mt with 3.8% Zn and 1.8% Pb
24	Allied Energy (USA)	Tin, tantalite	Starfield	70km of Choma Southern Zambia	Production	<ul style="list-style-type: none"> - Were produced by artisanal workers

Appendix II-5 (5) Mineral Development and Exploration Projects in Zambia

	Company	Commodity	Project name	Location	Stage	Remarks
25	Motapa Diamond (subsidiary of BHP Billiton) /Caledonia Mining (Canada)	Diamond	Mulonga Plain	Western Zambia	Exploration	<ul style="list-style-type: none"> - License area of 14,000km² at Mulonga Plain, 8,400km² at Kashiji Plain and 1,900km² at Lukulu - A 5,000-line-kilometer airborne gravity and magnetic survey over Mulonga Plain - Sampling programs on Kashiji Plain and Lukulu - Anomaly at Mulonga
26	Spirit of the River (Canada)	Diamond		Western Zambia	Exploration	<ul style="list-style-type: none"> - Mineral potential in the river channels of Zambia - Comprehensive study of the large diamond fields in neighboring Angola - Exploitation using gravity suction combined with pumping out sediments from tanks

Appendix III-1 List of Geological Source Maps Used for Revision of 1:1,000,000 Geological Map

Report No.	Quarter Degree Sheet	Map name	Published year	Consultant	Financed under
84	0932NW	Choji	1995	British Geological Survey	World Bank project 1993-95
84	0932NE	Nakonde	1995	British Geological Survey	World Bank project 1993-95
86	0931SE	Makasa	1995	British Geological Survey	World Bank project 1993-95
85	0932SW	Mututa Hills	1995	British Geological Survey	World Bank project 1993-95
85	0932SE	Kalungu	1995	British Geological Survey	World Bank project 1993-95
93	0933SW	Mafinga Hills	1994	British Geological Survey	World Bank project 1993-95
92	1032NW	Muliansolo Mission	1994	British Geological Survey	World Bank project 1993-95
92	1032NE	Isoka	1994	British Geological Survey	World Bank project 1993-95
95	1031SE	Ilondola Mission	1998	British Geological Survey	European Development Fund 1996-98
79	1032SW	Chinsali	1994	British Geological Survey	World Bank project 1993-95
79	1032SE	Mutangoshi Hills	1994	British Geological Survey	World Bank project 1993-95
113	1033SW, SE	Muyombe and Luwumbu river	unpublished	Czech Geological Survey	Government of Czech Republic
64	1131NE	Shiwa Ng'andu	1998	British Geological Survey	European Development Fund 1996-98
76	1132EW	Luswa River	1994	British Geological Survey	World Bank project 1993-95
57	1133NW	Chama	1994	DAL S.p.A. Italy	EEC/LOME
81	1131SE	Katibunga Mission	1994	British Geological Survey	World Bank project 1993-95
82	1132SW	Mtofwe	1994	DAL S.p.A. Italy	EEC/LOME
62	1132SE and 1133SW	Chikwa and Lake Beu	2000	British Geological Survey	European Development Fund 1996-2000
78	1231NE	Nabwalya	1994	DAL S.p.A. Italy	EEC/LOME
74	1232NW	Lumimba Mission	1994	DAL S.p.A. Italy	EEC/LOME
71	1232NE	Lumezi River	1998	British Geological Survey	European Development Fund 1996-98
71	1233NW	Lundazi	1998	British Geological Survey	European Development Fund 1996-98
105	1231SW	Mupamadzi River	1997	British Geological Survey	European Development Fund 1996-98
91	1232SW	Mwanya	1997	British Geological Survey	European Development Fund 1996-98
50	1232SE and 1233SW	Lukusuzi	1998	British Geological Survey	EEC/LOME
35	1332NW	Machinje Hills	1992	DAL S.p.A. Italy	European Development Fund 1996-2000
49	1332NE	Chimwala	2000	British Geological Survey	European Development Fund 1996-2000
13	1331SE	Lusandwa River	1964	Northern Rhodesia GSD	Northern Rhodesia
42	1332SW	Mtetezi River	1992	DAL S.p.A. Italy	EEC/LOME
41	1332SE	Chipata	1975	Geological Survey Department	Zambia
43	1224NW	West Lunga River	1994	DAL S.p.A. Italy	EEC/LOME
44	1224NE	Kabompo Dome	1992	DAL S.p.A. Italy	EEC/LOME
40	1225NW	Kabompo Gorge	1992	DAL S.p.A. Italy	EEC/LOME
83	1225NE and 1125SE	Mwombezhidome and Jiwundu Swamp	1998	British Geological Survey	European Development Fund 1996-98
90	1225SE	Matebo	2000	British Geological Survey	European Development Fund 1996-2000
90	1226SW	Luma River	2000	British Geological Survey	European Development Fund 1996-2000
36	1226NW	Solwezi	1992	DAL S.p.A. Italy	EEC/LOME
80	1226NE	St Francis Mission	1994	DAL S.p.A. Italy	EEC/LOME
80	1226SE	St Francis Mission	1994	DAL S.p.A. Italy	EEC/LOME
65	1227SW	Luwishi Dome	1994	British Geological Survey	World Bank Project 1993-95
66	1227SE	Chingola	1994	British Geological Survey	World Bank Project 1993-95
1:250,000	SC-35-13	Mwinilunga	2000	British Geological Survey	World Bank Funding , Eripta project 1998-2000

Appendix III-2 (I) Correlation of Symbols between 1:1M Geological Maps and 1:100K Geological Maps

Reports No. QDS	Map name	84 0932NW	86 0931SE	85 0932SW	85 0932SE	93 0933SW
1:1,000,000 geological map		Choji	Makasa	Mututa Hills	Kalungu	Mafinga Hills
Quaternary Alluvium, colluvium R		R Alluvium S R Colluvium R	R Alluvium O R Colluvium P	R Alluvium Z R Colluvium Y	R Alluvium R R Colluvium Y	
Karoo Upper Karoo 32 Lower Karoo 31 Basal formation and Coal 30						
Muva						31 Mudstone P
Upper shales 20	Mafinga G	20 Transitional bed W 20 Shale and claystone U 20 Sandstone T	20 Sandstone O	20 Transitional bed W 20 Shale and claystone U 20 Sandstone T	20 Transitional bed W	20 Pelite O 20 Transition bed P 20 Sandstone KL 20 Basal conglomerate J
Upper quartzite 19		19 Upper quartzic sandstone X 19 Middle quartzite V 19 Lower quartzite S		19 Upper quartzic sandstone X 19 Middle quartzite V 19 Lower quartzite S	19 Middle quartzite V 19 Lower quartzite S	19 Quartzite M
Undifferentiated basement complex 12	Mulungwizi gneiss G	12 Granite gneiss Q 12 Hornblende gneiss O 12 Muscovite gneiss N 12 Biotite gneiss and schist M 12 Biotite gneiss L 12 Augen gneiss K	12 Migmatitic gneiss N 12 Augen gneiss M 12 Kabisha gneiss L 12 Ntoko schist F K	12 Biotite gneiss R 12 Migmatitic gneiss O 12 Muscovite gneiss and schist P 12 Augen gneiss O T 12 Feldspathic gneiss N 12 Quartzic gneiss M 12 Hornblende gneiss L 12 Biotite muscovite gneiss K 12 Biotite gneiss J	12 Biotite gneiss R 12 Migmatitic gneiss O 12 Muscovite gneiss and schist P 12 Augen gneiss O T 12 Feldspathic gneiss N 12 Quartzic gneiss M 12 Hornblende gneiss L 12 Biotite muscovite gneiss K 12 Biotite gneiss J	12 Feldspathic gneiss H 12 Hornblende gneiss G 12 Muscovite gneiss F 12 Granite gneiss E 12 Muscovite gneiss D 12 Cordierite gneiss C
Basement complex		12 Ntoko schist F J	12 Augen gneiss M	5 Microgranite H 5 Luचेwe granite E	5 Microgranite H 5 Luचेwe granite E	
Igneous rock	Post-Ubendian	5 Zyozyo granite/Chifuisa granite H 5 Luचेwe granite C 5 Mukalizi granite F 5 Chisenga granodiorite E 5 Biotite granite D	5 Chaba granite J 5 Luचेwe granite H	5 Microgranite H 5 Luचेwe granite E	5 Ilonda hills granite G 5 Granite F	
Granite, chanoackite 5	Ubendian					
pre-Ubendian						
Basement complex		3 Gabbro C	3 Gabbro B	3 Gabbro C	3 Gabbro C	3 Metagabbro B
Syenite 4						
Basic igneous, amphibolites 3						

Appendix III-2 (3) Correlation of Symbols between 1:1M Geological Maps and 1:100K Geological Maps

Reports No. QDS	64 1131NE	57 1133NW	81 1131SE	82 1132SW	62 1132SE and 1133SW
Map name	Shiwa Ngandu	Luswa river	Katibunga Mission	Mtofwe	Chikwa and Lake Beu
	R Alluvium J		R Alluvium R	R Alluvium M R Kandewe F L	R Alluvium R Residual soil P
1:1,000,000 geological map					
Quaternary Alluvium, colluvium	R				
Tertiary to Quaternary					
Cenozoic to Palaeozoic	Upper Karoo	32 Escarpment grit P	32 Undifferentiated S	32 Niawere F K 32 Escarpment grit J	32 Sandstone O 32 Escarpment grit N
	Lower Karoo	31 Madumabisa mudstone O	31 Mudstone R 31 Grit Q	31 Madumabisa mudstone Q	31 Madumabisa mudstone M
	Basal formation and Coal	31 Undifferentiated L 30 Luwumbu F N 30 Mushi river formation M	30 Luwumbu F P 30 Mushi river formation O 30 Conglomerate P	31 Undifferentiated E 30 Luwumbu coal F G 30 Basal F F	
Palaeozoic to Precambrian					
Katanga Kundelungu undifferentiated	25 Lutitlia formation H		25 Mpeka formation N		
Proterozoic	Upper shales	20 Quartz conglomerate G 20 Pelite F 20 Psammite D 20 Metavolcanic C		20 Pelite E,G,J	
	Upper quartzite	19 Quartzite E	19 Quartzite F,H	19 Quartzite C	
	Upper shales		12 Gneiss K 3 Amphibolite J	12 Gneiss C	
Mbuwa				20 Kalonga F D	
Kalinke G					
	Granulite	13 Granulite J 13 Leucogneiss H			12 Biotite gneiss GL 12 Migmatite K 12 Calc-silicate rocks J 12 Mafic gneiss H 12 Quartz-feldspatic gneiss F 12 Schist and phylonite E
Basement complex					
	Undifferentiated basement complex				
		8 Quartzite D 5 Charnockite G			8 Quartzite F1 5 Granite B
Kalinke G					
	Basement complex	5 Granite C 5 Alkali feldspar granite B		5 Granite B	
	Igneous rock	4 Syenite D			
Basement complex					
		3 Metagabbro B			

Appendix III-2 (4) Correlation of Symbols between 1:1M Geological Maps and 1:100K Geological Maps

SW

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V

U

L
K
T
NM
SRP.O
O

J
H

G
F
EDC

B

Appendix III-2 (5) Correlation Symbols between 1:1M Geological Maps and 1:100K Geological Maps

1:1,000,000 geological map		Reports No. QDS	Map name	49 1332NE	13 1331SE	42 1332SW	41 1332SE
Quaternary	Alluvium, colluvium	R	Machinje hills	R Alluvium	R Alluvium	R Alluvium	R Alluvium
Karoo		32		32 Mudstone	32 Sandstone, arkose		
Katanga							
Muva							
Metamorphosed pelite and psammite		15		15 Quartzite and gneiss (Sasare G)	15 Psammite and pelite (Mwami G)		
Granulite	Basement complex	13		13 Granulite	13 Leucocratic granulite	13 Leucocratic granulite	13 Granulite
Undifferentiated basement complex	Basement complex	12	Kibaran	12 Biotite gneiss	12 Migmatic gneiss	12 Undifferentiated granulite	12 Quartz-feldspathic gneiss
Volcanics and metavolcanics		11		11 Basic lava	11 Volcanic breccia		
Marble		10		10 Marble	10 Marble	10 Marble	
Quartzite		8		8 Quartzite	8 Quartzite	8 Quartzite	8 Quartzite
Granite, charnockite	Basement complex Igneous rock	5		5 Biotite metagranite	5 Granite	5 Charnockite	5 Leucocratic granite
Syenite		4		4 Syenite	4 Syenite	4 Syenite	4 Syenite
Basic igneous, amphibolites	Basement complex	3		3 Metagabbro	3 Amphibolite	3 Amphibolite	3 Amphibolite, metagabbro
Carbonatite		2					
Kimberlite		1		1 Kimberlite			
				12 Mwangazi mylonite	12 Biotite gneiss	12 Gneiss	12 Quartz-feldspathic gneiss
				12 Paragneiss	12 Migmatic gneiss	12 Biotite gneiss	12 Quartz-feldspathic gneiss
					12 Metaconglomerate	12 Psammitic gneiss	12 Biotite gneiss
						12 Pelitic gneiss	12 Biotite gneiss
						12 Felsic gneiss	12 Biotite gneiss
						11 Basic lava	11 Volcanic breccia
						10 Marble	10 Marble
						8 Quartzite	8 Quartzite
						5 Biotite metagranite	5 Leucocratic granite
						4 Syenite	4 Syenite
						3 Metagabbro	3 Amphibolite
						1 Kimberlite	
						13 Leucocratic granulite	13 Granulite
						13 granulite gneiss	13 Undifferentiated granulite
						12 Biotite gneiss	12 Gneiss
						12 Migmatic gneiss	12 Quartz-feldspathic gneiss
						12 Metaconglomerate	12 Biotite gneiss
						12 Psammitic gneiss	12 Biotite gneiss
						12 Pelitic gneiss	12 Biotite gneiss
						12 Felsic gneiss	12 Biotite gneiss
						11 Basic lava	11 Volcanic breccia
						10 Marble	10 Marble
						8 Quartzite	8 Quartzite
						5 Biotite metagranite	5 Leucocratic granite
						4 Syenite	4 Syenite
						3 Metagabbro	3 Amphibolite
						1 Kimberlite	

Appendix III-2 (6) Correlation Symbols between 1:1M Geological Maps and 1:100K Geological Maps

1:1,000,000 geological map		Reports No. QDS	1:250,000 SC-35-13	Mwinilunga	43 1224NW	44 1224NE	40 1225NW
Quaternary	Alluvium, colluvium	R	R Alluvium R White sand	T	West Lunga River	Kabompo Dome	Kabompo Gorge
Miocene to Recent	Kalahari	34	34 Zambezi F 34 Barotse 34 Residual loam soil	S1 S R	Kalahari	R Alluvium N 34 Zambezi F M 34 Barotse N 34 Kasana F M	R Alluvium N 34 Zambezi F M
Kundelungu G	Upper Kundelungu shale	29	Probably Kundelungu	O	26 Marble, calcareous K1,K3 25 Kanyidma F L 25 West Lunga F K	26 Carbonates L1	23 Dolomitic marble G1,G4
	Kundelungu psammite	28	Kundelungu	N			
Katanga	Lower Kundelungu shales	27	Mwashia	M1	24 Lugishi F J 24 Granet biotite schist L1 23 Akaosic quartzite K 23 Siliceous marble K1 23 Carbonaceous shale J 23 Ferruginous quartzite H 23 Siltstone and chert G	24 Lugishi F K 24 Wamikumbi F J	24 Wamikumbi F G
	Kundelungu carbonate rocks	26	Roan	L			
Mine Series	Kundelungu undifferentiated	25			22 Wushingwi F G	22 Wushingwi F H	22 Wushingwi F F
	Mwashia - typically carbonaceous shale and argillite	24			22 Wushingwi F G	22 Wushingwi F H	22 Wushingwi F F
	Upper Roan - dolomite and argillite	23			22 Wushingwi F G	22 Wushingwi F H	22 Wushingwi F F
Muva	Lower Roan with basal conglomerate	22			22 Wushingwi F G	22 Wushingwi F H	22 Wushingwi F F
	Mine Series undifferentiated	21			22 Wushingwi F G	22 Wushingwi F H	22 Wushingwi F F
	Quartzite pelite sequences	16			14 Chikuku F F	14 Chikuku F F	14 Kabompo schist C
	Pre-Katanga schist and gneiss	14	Basement complex		14 Chikuku F F	14 Chikuku F F	14 Kabompo schist C
	Undifferentiated basement complex	12	Basement complex		12 Lecogranite dyke E 12 Diorit stock D 12 Biotite leucogranite C 12 Gneiss A,B	12 Wamifumbu gneiss E	12 Granite-Gneiss D 12 Mukundu gneiss B 12 Undifferentiated gneiss A
	Granite	12	Igneous rock		11 Meta-volcanics C	11 Meta-volcanics D	12 Granite J
	Volcanics and metavolcanics	11	Igneous rock		4 Diorite D 3 Gabbro E	3 Meta-gabbro C	3 Gabbro K
	Syenite, diorite	4	Basement complex				
	Basic igneous, amphibolites	3					

Appendix III-2 (8) Correlation of Symbols between 1:1M Geological Maps and 1:100K Geological Maps

Correlation of explanation of symbols between a 1:1,000,000 geological map and 1:100,000 geological maps (8)

1:1,000,000 geological map		80 1226NE	80 1226SE	65 1227SW	66 1227SE
Quaternary		R Alluvium	V Alluvium	R Riverine deposits soils	P.O
Miocene to Recent		R Alluvium	V Alluvium	R Riverine deposits soils	P.O
Kalahari	34	Kalahari			
Kundulungu	29	27 Pelitic F			
	28	26 Solwezi Biotite-quartzite F			
	27	25 Undifferentiated argillaceous rocks			
	26	25 Undifferentiated argillaceous rocks			
	25	25 Paraconglomerate F			
Katanga	24	25 Kifubwa banded ironstone F			
	24	24 Undifferentiated			
	23	23 Chatugoma marble F			
Muva	16	22 Dumbwa Hill F			
	14	23 Kima F			
	12	22 Chipupushi F			
Basement complex	12	22 Luswishi quartzite			
	12	21 Undifferentiated quartzite and schist			
	12	16 Undifferentiated quartzite and schist			
	12	12 Schist			
	12	12 Amphibole gneiss			
Basement complex	12	12 Granite gneiss			
	12	12 Banded gneiss			
	12	12 Banded gneiss			
Basement complex	12	12 Granodiorite			
	11	12 Granite gneiss			
Basement complex	4	3 Gabbro			
	4	3 Gabbro			
	3	3 Metabasic rock			

Appendix IV-1 Recode Items in Mineral Resource Database

Main item

Mineral Occurrence
Number
Name
Alternative name
Location
Distance
Constituency
District
Province
Sheet(Map index)
Latitude
Longitude
UTM Zone
UTM East
UTM North
Accuracy
Focus
GS number
WGM No
Type
Importance
Status
Confidentiality
Commodity
Date entered
Entered by
Date edited
Edited by
Comments

Related information

Development and Reserves
Development History
Reserves
Ccode
Category
Year
Grade
Tonnage
Cutoff_grade
Comments

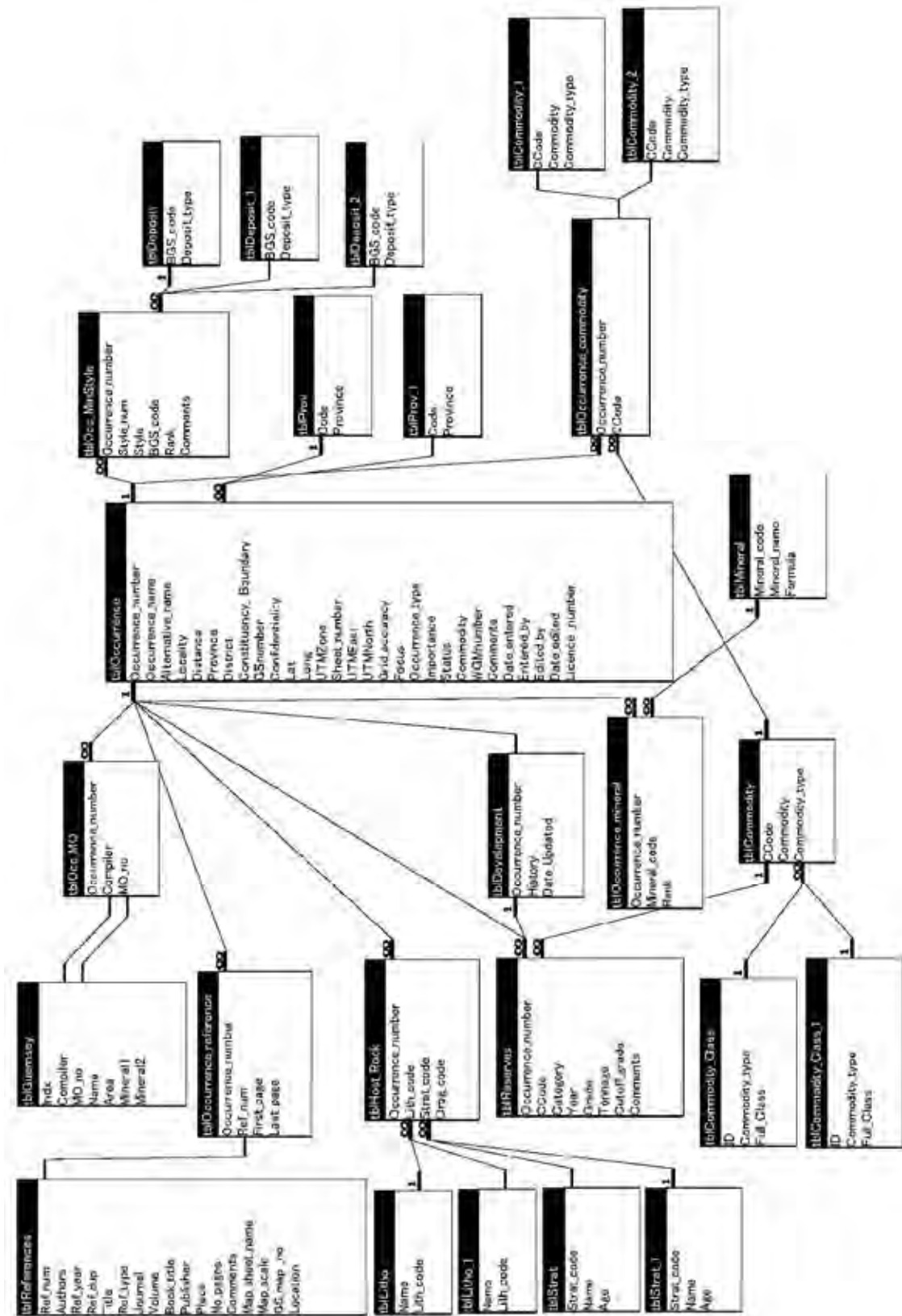
Mineralisation Style
Name
Style_num
Style
Rank
BGS_code
Deposit type

Host Rock
Name
Lith_code
Lithology
Strat_code
Stratigraphy
Orogeny

Minerals
Name
Mineral_code
Mineral_name
Rank

References
Ref No
Authors
Year
Reference Title

References
Reference number
GSD Location
Reference authors
Reference year
Reference duplicate
Reference title
Reference type
Journal
Volume
Book title
Publisher
Place
No of Pages
Comments
Map Sheet Name
Map Scale
GS Map No



Appendix IV-2 Relationship of Tables in Mineral Resource Database

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTM2/UTMEast	UTMNorth	Locality	Distance	Prov/District
1 083000	300000	Diamond	1 MWERU WANTIPA	36 169666	9059231	A LARGE AREA BETWEEN LAKES MWERU WANTIPA AND TANGANYIKA	THE SOUTH BOUNDARY IS APPROXIMATELY 30 KM N	KAPUTA
083000	300000	Diamond	663 MWERU WANTIPA PL 83	36 169666	9059231	CENTRED ABOUT 70KM N OF MPOROKOSO		MPOROKOSO
2 091500	315700	Diamond	8 CHOZI RIVER	36 384662	8977430	ON THE CHOZI RIVER NEAR THE TANZANIAN BORDER	MIDWAY BETWEEN MBALA AND NAKONDE	N MBALA
091500	315700	Diamond	692 CHOZI RIVER P.L 63	36 384662	8977430	CENTRED ABOUT 80KM SE OF MBALA		N MBALA
3 092100	311400	Gold	9 SENGA HILL	36 305976	8966059	HEADWATERS OF CHAMBESHI RIVER	34 KM NORTH OF KASAMA	N MBALA
092100	311400	Gold	678 SENGA HILL MISSION	36 305976	8966059	32 KM SE OF SENGA HILL MISSION		N MBALA
4 092325	311337	Gold	678 CHELA	36 305300	8961600	38M. FROM ABERCORN, BEARING 193*		N MBALA
092325	311337	Gold	680 CHELA STREAM	36 305300	8961600	SEVERAL STREAMS TRIBUTARY TO THE CHAMBEZI. THIS STREAM IS SOUTH OF CHELA HILL		N MBALA
5 093000	290000	Diamond	4 NCHELENGE	35 719565	8949330	BORDERS ON THE SE SHORE OF LAKE MWERU	THE TOWN OF NCHELENGE IS IN THE CENTRE OF THE LP	NCHELENGE
093000	290000	Diamond	649 NCHELENGE P.L 116	35 719565	8949330	AREA OF 2.794 SQ. KM TO SE OF LAKE MWERU		LP NCHELENGE
6 100910	325054	Copper	13 NKOMBWA HILL	36 483400	8877800	ISOKA DISTRICT	35 KM EAST OF ISOKA	N ISOKA
100910	325054	Copper	978 NKOMBWA HILL	36 483400	8877800	24 KM. E. OF ISOKA		N ISOKA EAST
7 100910	325054	Niobium	13 NKOMBWA HILL	36 483400	8877800	ISOKA DISTRICT	35 KM EAST OF ISOKA	N ISOKA
100910	325054	Niobium	978 NKOMBWA HILL	36 483400	8877800	24 KM. E. OF ISOKA		N ISOKA EAST
8 100910	325054	Phosphate	13 NKOMBWA HILL	36 483400	8877800	ISOKA DISTRICT	35 KM EAST OF ISOKA	N ISOKA
100910	325054	Phosphate	978 NKOMBWA HILL	36 483400	8877800	24 KM. E. OF ISOKA		N ISOKA EAST
9 100910	325054	Limestone	978 NKOMBWA HILL	36 483400	8877800	24 KM. E. OF ISOKA		N ISOKA EAST
100910	325054	Limestone	993 NKOMBWA HILL	36 483400	8877800	24 KM. E. OF ISOKA	ISOKA	N ISOKA
10 101346	301258	Copper	675 LUWINGU	36 195000	8868000	32 KM E. OF LUWINGU		N LUBANSESHI
101346	301258	Copper	2759 KASAPO CHITOSHI	36 195000	8868000	SITE APPROX 1.5 KM SOUTH OF ROAD AT KASAPO CHITOSHI		N MPOROKOSO
11 103419	292009	Manganese	558 BUNDA 2	35 755600	8830500	ABOUT 55 MILES NE OF MANSA		LP MANSA
103419	292009	Manganese	2742 BUNDA	35 755600	8830500			LP MWENSE
12 103755	290919	Manganese	573 MATETE	35 735800	8824000	8KM. NE. OF CHIPILI.		LP MANSA
103755	290919	Manganese	2733 MATETE	35 735800	8824000			LP MWENSE
13 103853	290949	Manganese	572 MASESA	35 736700	8822200	ABOUT 9KM. NE. OF CHIPILI		LP MANSA
103853	290949	Manganese	2737 MASESA	35 736700	8822200			LP MWENSE
14 105212	291322	Manganese	564 LUSHIBA	35 743000	8797600	40KM. N. E. OF MANSA.		LP MANSA
105212	291322	Manganese	2748 LUSHIBA	35 743000	8797600			LP LUBANSESHI
15 110033	284900	Manganese	579 LUKWINA	35 698500	8782500	20 KM. N.W. OF FORT ROSEBERY		LP MANSA
110033	284900	Manganese	2774 LUKWENA	35 698500	8782500			LP MANSA
16 110049	285129	Manganese	581 KITOKWE	35 703000	8782000	19 KM. NW. OF FORT ROSEBERY		LP MANSA
110049	285129	Manganese	618 CHIPUSHI	35 703000	8782000	FORT ROSEBERY AREA.		LP MANSA
17 110357	285333	Manganese	633 MUSAKALALA	35 706750	8776200	TO NORTH OF KANSAMBO I (MT. 2022.)		LP MANSA
110357	285333	Manganese	2777 MIKONDO	35 706750	8776200			LP MANSA
18 110433	285335	Manganese	584 WEST KANSAMBO 1	35 708800	8775100	ON N. W. SIDE OF THE KANSAMBO, WHICH IS TRIBUTARY TO THE R. MABONDA.		LP MANSA
110433	285335	Manganese	2778 KANSAMBO	35 708800	8775100			LP MANSA
19 110854	284959	Manganese	577 MULOSI	35 700200	8767100	ON CHOF-SHI R., AT MULOSI VILLAGE.		LP MANSA
110854	284959	Manganese	2770 WEST MULOSI	35 700200	8767100			LP MANSA
20 111040	312529	Diamond	25 MPIKA	36 328000	8764000	NORTH OF THE ROAD RUNNING WEST FROM SHIWA NGANDU	75 KM NORTH OF MPIKA	N MPIKA
111040	312529	Diamond	759 MPIKA-LUWAWALA	36 328000	8764000	CENTRED 80 KM. N. OF MPIKA		N MPIKA
21 111645	283850	Manganese	585 FISAKA	35 679800	8752750	1.4KM. N.W. OF MIPOLOMBO.		LP MANSA
111645	283850	Manganese	2786 FIKASA	35 679800	8752750			LP MANSA

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Distance	Provi/District
22	112012	Copper	601 LEFOY (LOFOYI)	35	659700	8746500			LP MANS
	112012	Copper	632 CHALUBA COPPER	35	659700	8746500	ABOUT 1KM UP CHALUBA R. FROM ITS CONFLUENCE WITH LUAPULA RIVER.		LP MANS
23	112345	Manganese	533 BUNDU	35	747900	8739400	46 KM. E.S.E. OF MANS.		LP MANS
	112345	Manganese	541 BUNDA 1	35	747900	8739400	18KM. N.E. OF MANS		LP MANS
	112345	Manganese	2800 MULINDA	35	747900	8739400			LP MANS
24	112818	Copper	596 LUCHINSA	35	654000	8731600			LP MANS
	112818	Copper	599 LUCHINSA	35	654000	8731600	79 KM. SW. OF FORT ROSEBERY (MANS). ON TRIBUTARY OF LUAPULA RIVER.		LP MANS
25	114842	Copper	734 MWINILUNGA 9. 1/2 MILES ESE	35	235800	8693250	9 1/2 MILES ESE OF MWINILUNGA.		NW MWINILUNGA WEST
	114842	Copper	2756 YANTONYI HILL	35	235800	8693250			NW MWINILUNGA
26	115353	Copper	17 LUAMATA	35	225867	8681534	SC-35-13 MWINILUNGA	18 KM SSE OF MWINILUNGA	NW MWINILUNGA EAST
	115353	Copper	722 LUAMATA	35	225550	8683600	WEST BANK OF WEST LUNGA RIVER. 12 MILES SOUTH OF MWINILUNGA.		NW MWINILUNGA EAST
27	120026	Copper	46 SHIKLA	35	418357	8671610	SOLWEZI AREA	25 KM NW OF SOLWEZI	NW SOLWEZI WEST
	120026	Copper	872 SHIKLA	35	415360	8672660	12 KM NW OF SOLWEZI. 3.75 KM W OF SOLWEZI RIVER.		NW SOLWEZI
28	120548	Copper	47 KANSANSHI	35	438334	8662443	SOLWEZI AREA	10 KM NORTH OF SOLWEZI	NW SOLWEZI EAST
	120548	Copper	875 KANSANSHI	35	438300	8662820			NW SOLWEZI
29	121142	Aquamarine	2878 LUNDAZI	36	523000	8652000			E LUNDAZI
	121142	Aquamarine	2880 LUNDAZI	36	523000	8652000			E LUNDAZI
30	121142	Beryl	2878 LUNDAZI	36	523000	8652000			E LUNDAZI
	121142	Beryl	2880 LUNDAZI	36	523000	8652000			E LUNDAZI
31	121200	Amethyst	111 ARIES AND ARIES II	36	518130	8651444	NORTH OF LUNDAZI	8 KM NORTH OF LUNDAZI	E LUNDAZI
	121200	Amethyst	1078 ARIES MINE	36	518130	8651444	7KM N OF LUNDAZI ON ISOKA ROAD. THEN 2.5KM W ON MINE ROAD.		E LUNDAZI
32	121200	Beryl	111 ARIES AND ARIES II	36	518130	8651444	NORTH OF LUNDAZI	8 KM NORTH OF LUNDAZI	E LUNDAZI
	121200	Beryl	1078 ARIES MINE	36	518130	8651444	7KM N OF LUNDAZI ON ISOKA ROAD. THEN 2.5KM W ON MINE ROAD.		E LUNDAZI
33	121319	Iron	69 KASUMBALESA	35	589900	8648900	ON ZAIRE BORDER NORTH OF KONKOLA		CB CHINGOLA
	121319	Iron	893 NEUDORP IRON	35	589900	8648900	21 MILES N OF CHINGOLA		CB CHILLABOMBWE
34	121343	Uranium	48 MITU	35	429300	8647679	SOLWEZI AREA	7 KM SW OF SOLWEZI	NW SOLWEZI WEST
	121343	Uranium	877 MITU	35	429950	8648200	7.5 KM SW OF SOLWEZI		NW SOLWEZI
35	121534	Copper	41 KALUMBILA	35	315500	8644300	SOLWEZI-KALUMBILA PL. MWINILUNGA AREA. JUST SE OF KABOMPO DOME	350 KM W OF CHINGOLA. 18 KM W OF MWINILUNGA	RO NW SOLWEZI WEST
	121534	Copper	809 MUSHINGASHI	35	315500	8644300	M RIVER 5 1/2 MILES NORTH OF WEST OF KALUMBILA HILL.		NW SOLWEZI CENTRAL
36	121753	Copper	58 KONKOLA (NO. 2) OREBODY	35	583510	8640500	NORTHWESTERN COPPERBELT. IN BANCROFT ML.7. NCHANGA DIVISION	8 KM NORTH OF CHILLABOMBWE TOWNSHIP	CB CHILLABOMBWE
	121753	Copper	896 KONKOLA MINE	35	583510	8640500			CB CHILLABOMBWE
37	122500	Copper	40 SHILENDA	35	364126	8627174	15 KM SOUTH OF SOLWEZI MWINILUNGA ROAD	75 KM WEST OF SOLWEZI	NW SOLWEZI WEST
	122500	Copper	831 SHILENDA	35	362800	8628400	5 KM E OF CHIPIMPA HILL		NW SOLWEZI WEST
38	122646	Copper	930 FIMPIMPA 1	35	614000	8624000	NE OF NCHANGA		CB CHINGOLA
	122646	Copper	934 FIMPIMPA 2	35	614000	8624000	AREA FROM RIVER LODI NE TO MULLASHI.		CB CHINGOLA
	122646	Copper	979 FIMPIMPA 3	35	614000	8624000	NORTH-EAST OF NCHANGA		CB CHINGOLA
39	122705	Copper	926 KIRILA BOMWIE 'B' 'W	35	596500	8623500	CENTRED C. 5 KM S.W. OF CHILLABOMBWE		CB CHILLABOMBWE
	122705	Copper	948 KIRILA BOMWIE 'E' 'W	35	596500	8623500	CENTRED C. 9KM. S.W. OF CHILLABOMBWE		CB CHILLABOMBWE
40	123037	Copper	99 NCHANGA MINE	35	593000	8617000	NORTHWESTERN COPPERBELT. IN NCHANGA ML10	48 KM NW OF KITWE	CB NKANA
	123037	Copper	920 NCHANGA OPEN PIT	35	593000	8617000	CHINGOLA		CB CHINGOLA
41	123041	Copper	55 NCHANGA NOSE COBALT	35	595500	8616850	NORTHERN COPPERBELT. WITHIN NCHANGA ML 10	ADJACENT TO EAST END OF NCHANGA OPEN PIT	CB CHINGOLA

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTM2	UTM East	UTM North	Locality	Distance	Prov/District
123041	275244	Copper	908 KAKOMA	35	595500	8616880	1 MILES ENE OF CHINGOLA		CB CHINGOLA
42	123112	Copper	924 PART KAKOSA SP. (422)	35	595500	8615900	NORTHWEST OF CHINGOLA, NCOM.		CB CHINGOLA
	123112	Copper	925 KAKOSA WEST SP.	35	595500	8615900	NORTHWEST OF NCHANGA MINING LICENCE		CB CHINGOLA
43	123138	Manganese	70 LUANO AREA	35	601300	8615100	COPPERBELT	A FEW KM SOUTH OF CHINGOLA	CB CHINGOLA
	123138	Manganese	899 LUANO MANGANESE	35	601300	8615100	4 MILES EAST OF NCHANGA MINE		CB CHINGOLA
44	123444	Copper	62 CHABWANYAMA	35	588728	8614455	NORTHERN COPPERBELT, IN ML10 (NCHANGA)	3 KM NW OF MIBULA NO.1 P.TI, 5 KM SOUTH OF NCHANGA	CB CHINGOLA
	123444	Copper	903 CHABWANYAMA	35	590200	8609400	3 MILES SSW OF CHINGOLA		CB CHINGOLA
45	123534	Iron	71 MUSHISHIMA	35	584900	8607900	CHINGOLA AREA	8 KM SW OF CHINGOLA	CB CHINGOLA
	123534	Iron	910 MUSHISHIMA	35	584900	8607900	5 MILES SW OF CHINGOLA		CB CHINGOLA
46	123937	Copper	64 FITULA COPPER POD	35	594600	8600400	NCHANGA - ML10	12 KM SOUTH OF CHINGOLA	CB CHINGOLA
	123937	Copper	918 FITULA	35	594600	8600400	4 KM S OF MIBULA		CB CHINGOLA
47	124224	Copper	85 NGALA	35	656500	8595000	EASTERN COPPERBELT	25 KM SE OF MUFULIRA	CB KITWE
	124224	Copper	1012 NGALA	35	656506	8594993			CB MUFULIRA
48	124744	Cobalt	94 NKANA DEPOSITS	35	628300	8585300	CENTRAL COPPERBELT, WITHIN THE KITWE CITY LIMITS	NEAR CITY OF KITWE	CB NKANA
	124744	Cobalt	95 NKANA OXIDES	35	628300	8585300	NKANA DIVISION, ADJACENT TO PRESENT MINE WORKINGS	2.5 KM SOUTH OF KITWE	CB NKANA
49	124744	Copper	94 NKANA DEPOSITS	35	628300	8585300	CENTRAL COPPERBELT, WITHIN THE KITWE CITY LIMITS	NEAR CITY OF KITWE	CB NKANA
	124744	Copper	95 NKANA OXIDES	35	628300	8585300	NKANA DIVISION, ADJACENT TO PRESENT MINE WORKINGS	2.5 KM SOUTH OF KITWE	CB NKANA
50	124946	Cobalt	89 CHIBULUMA (EAST AND WEST)	35	619800	8581600	CENTRAL COPPERBELT, IN CHIBULUMA ML18	16 KM WEST OF KITWE	CB KALULUSHI
	124946	Cobalt	995 CHIBULUMA, M.L. 18	35	619800	8581600	ABOUT 8 KM WEST OF NKANA CENTRAL OREBODY		CB NKANA
51	124946	Copper	89 CHIBULUMA (EAST AND WEST)	35	619800	8581600	CENTRAL COPPERBELT, IN CHIBULUMA ML18	16 KM WEST OF KITWE	CB KALULUSHI
	124946	Copper	995 CHIBULUMA, M.L. 18	35	619800	8581600	ABOUT 8 KM WEST OF NKANA CENTRAL OREBODY		CB NKANA
52	125311	Copper	888 LUISWISHI	35	534450	8575520	9 MILES NNW OF KABANGA		CB CHINGOLA
	125311	Copper	888 KABANGA 9 MILES NNW	35	534450	8575520	9 MILES NNW OF KABANGA		CB CHINGOLA
53	125342	Aquamarine	2505 KAKULA - KADOTTI	36	429081	8574503	ABOUT 400M NORTH OF KANDIYO VILLAGE IN KATETE DISTRICT		E LUNDAZI
	125342	Aquamarine	2506 KAPETA MINE	36	429081	8574503	SW OF LUNDAZI DISTRICT IN CHIEF MWANYA		E MFLUWE AREA
54	125342	Beryl	2505 KAKULA - KADOTTI	36	429081	8574503	ABOUT 400M NORTH OF KANDIYO VILLAGE IN KATETE DISTRICT		E LUNDAZI
	125342	Beryl	2506 KAPETA MINE	36	429081	8574503	SW OF LUNDAZI DISTRICT IN CHIEF MWANYA		E MFLUWE AREA
55	125555	Copper	887 KABANGA 6 MILES NNW	35	536800	8570500	6 MILES NNW OF KABANGA		CB CHINGOLA
	125555	Copper	906 KABANGA 40 MILES ENE	35	536800	8570500	40 MILES ENE OF KABANGA		CB NDOLA RURAL
56	130406	Emerald	159 MIKU (KAFUBU)	35	619804	8555174	NEAR MIKU RIVER (TRIBUTARY OF KAFUBU) - NW PART OF KAFUBU EMERALD DISTRICT	40 KM WEST OF LUANSHYA, 20 KM SOUTH OF KALULUB	CB NDOLA
	130406	Emerald	1237 MIKU BERYL	35	619804	8555174	ON TRIBUTARY OF THE KAFUBU RIVER 41 KM. W. OF LUANSHYA.		CB NDOLA
	130406	Emerald	2357 MIKU	35	619804	8555174	NDOLA RURAL EMERALD DISTRICT		CB NDOLA
57	130500	Copper	155 LUANSHYA	35	648169	8553376	LUANSHYA AND BALUBA	35 KM SE OF KITWE	CB LUANSHYA
	130500	Copper	156 LUANSHYA OXIDES	35	648169	8553376	ADJACENT TO THE PRESENT MINE WORKINGS AT LUANSHYA DIVISION	FALL WITHIN 10 KM OF THE TOWN OF LUANSHYA	CB LUANSHYA
58	130610	Emerald	2338 CHIMPUNDU	35	620072	8551314	NDOLA RURAL EMERALD DISTRICT	1 KM EAST OF PICALA RIVER	CB NDOLA
	130610	Emerald	2349 AKALA	35	620325	8551223	NDOLA RURAL EMERALD DISTRICT	1 KM SW OF ARENAS	CB NDOLA
59	131500	Copper	149 LUMPUMA EAST	35	633621	8535017	SOUTH AND SW OF LUANSHYA NEAR THE KAFUBU EMERALD AREA	48 KM WEST, MITONDO - 35 KM WEST, ANOB	CB NDOLA
	131500	Copper	1277 LUMPUMA EAST	35	633621	8535017	WEST OF LUANSHYA, AND LYING ACROSS KAFUE RIVER.		CB LUANSHYA
60	132133	Copper	1398 KUNONGU	35	295000	8522500	16 KM NE OF KALENGWA		NW KASEMPA
	132133	Copper	1432 KALENGWA 16 KM NE	35	295000	8522500	16 KM NE OF KALENGWA		NW KASEMPA
61	133221	Copper	130 NJENGA	35	362000	8503000	4 KM SE OF THE KASEMPA KAOMA ROAD	18 KM WSW OF KASEMPA	NW KASEMPA
	133221	Copper	1397 NJENGA	35	362000	8503000			NW KASEMPA

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTM2	UTM East	UTM North	Locality	Distance	Prov/District
62	133747	Manganese	160 CHIWEFE	35	765800	8492000	MKUSHI AREA	133 KM NE OF KABWE	MKUSHI NORTH
	133747	Manganese	463 CHIWEFE	35	765800	8492000	5KM EOF MKUSHI ON GT.NTH. ROAD (STH SIDE)		MKUSHI SOUTH
63	133840	Gold	161 OHETINA	35	748815	8469935	MKUSHI DISTRICT	25 KM WEST OF MKUSHI	MKUSHI NORTH
	133840	Gold	635 OHETINA	35	733400	8490700	25 KM W OF MKUSHI, 8KM N OF THE GREAT NORTH ROAD.		MKUSHI NORTH
64	133851	Gold	2535 CHITINA	35	734087	8490334			MKUSHI SOUTH
	133851	Gold	2566 CHETINA	35	734087	8490334			MKUSHI
65	133900	Copper	128 MUFUMBWE EXTENSION	35	260204	8490019	KALENGWA AREA	30 KM SW OF KALENGWA	NW SOLWEZI
	133900	Copper	1087 MUFUMBWE EXTENSION	35	260204	8490019			NW MUFUMBWE
	123838	Copper	1088 MUFUMBWE	35	260204	8490019	18 MILES N OF DONGWE/MUFUMBWE CONFLUENCE		NW MUFUMBWE
66	133900	Gold	1159 LUTEMBE EAST	36	445922	8491058	1.2 KM E OF THE MAIN LUTEMBE WORKINGS.		E CHIPATA
	133900	Gold	1180 INFOLMES	36	445922	8491058	ON JSEYMOUR'S INFOLMES ESTATE, 24 KM W OF CHIPATA		E CHIPATA
67	134035	Aquamarine	2430 MTETESHI	36	225585	8468774	20KM E OF NAKABAMBA FELDSPAR		C MKUSHI/SERENJE
	134035	Aquamarine	2434 MTETESHI	36	225586	8468774			C KABWE
68	134035	Feldspar	462 LUKASASHI	35	225598	8486759	88 KM S OF KANONA		C SERENJE
	134035	Feldspar	2430 MTETESHI	36	225585	8468774	20KM E OF NAKABAMBA FELDSPAR		C MKUSHI/SERENJE
69	134200	Copper	142 CHUNGA	35	467560	8485565	LUNGA BASIN AREA	95 KM EAST OF KASEMPA	NW KASEMPA
	134200	Copper	1313 CHUNGA	35	465600	8485500	95 KM E OF KASEMPA.		NW KASEMPA
70	134257	Gold	2514 TAWETE VILLAGE	36	442741	8463780			E CHIPATA
	134257	Gold	2587 TABETE	36	442741	8463780	ABOUT 2KM SOUTH OF MADZIMOYO. DEPOSIT IS LOCATED NEXT TO TABETE VILLAGE.		E CHIPATA
71	134349	Copper	1374 RUAMBURA	35	390000	8482000	22 MILES NE OF THE LUFUPU/MAKINASHI CONFLUENCE		NW KASEMPA
	134349	Copper	1427 LUAMBULA	35	390000	8482000	ABOUT 2 KM E. OF THE LUAMBULA CLEARING. NEAR KASEMPA - MUKUNASHI ROAD.		NW KASEMPA
72	134528	Clay	429 MKUSHI RIVER CHINA	35	767395	8477823	2KM NW OF MKUSHI RIVER MOTEL		C MKUSHI SOUTH
	134528	Clay	2476 MKUSHI RIVER	35	767395	8477823	LOCATED ON THE TRIBUTARIES OF THE MKUSHI RIVER IN DAMBOS		C MKUSHI NORTH
73	134900	Gold	169 VELOCITY MINE	36	182847	8470743	BULLUNGU HILLS		C KABWE
	134900	Gold	460 VELOCITY	36	182847	8470743	103 KM OF KANONA.		C SERENJE
74	134956	Copper	124 DWEJI	35	265881	8460560	KALENGWA AREA	53 KM SW OF KALENGWA	NW SOLWEZI
	134956	Copper	1120 DWEJI	35	275000	8470000	75 MILES SW OF KASEMPA 50 MILES SE OF KABOMPO		NW KASEMPA
75	135357	Copper	129 KAMWEJI	35	216500	8462000	35 KM SE OF KABOMPO		NW SOLWEZI
	135357	Copper	1090 KAMWEJI	35	216500	8462000	28 MILES NORTH EAST OF DONGWE/MUFUMBWE CONFLUENCE		NW KABOMPO
76	135400	Copper	1125 MUMFUTI II	35	269468	8462437			NW KASEMPA
	135400	Copper	1137 TEBESHU 2	35	269468	8462437	RK108		NW KASEMPA
77	135400	Gold	1408 DONGWE 310	35	283882	8462562			NW KASEMPA
	135400	Gold	1438 DONGWE 313	35	283882	8462562			NW KASEMPA
78	135400	Gold	123 KARIBAREMBI	35	287485	8462592	KALENGWA AREA	49 KM SOUTH OF KALENGWA	NW KASEMPA
	135400	Gold	1381 KARIBAREMBI	35	287485	8462592			NW KASEMPA
79	135449	Gold	174 SASARE	36	324615	8461356	PETAUKE DISTRICT	38 KM NORTH OF PETAUKE	E PETAUKE
	135449	Gold	1204 SASARE	36	324615	8461356	46 KM N OF PETAUKE		E PETAUKE
	135449	Gold	2486 SASARE	36	324615	8461356	50 KM NORTH OF PETAUKE. ON LONGAMONDI HILL		E PETAUKE
80	135458	Copper	125 OHIMENA	35	271302	8458764	KALENGWA AREA	52 KM SSW OF KALENGWA	NW SOLWEZI
	135458	Copper	1111 OHIMENA	35	276300	8460700	70 MILES SW OF KASEMPA. 50 MILES SE OF KAPOMPO		NW KASEMPA
81	135500	Copper	1085 BURDEN	35	265881	8460560	2 MILES W OF DONGWE/MUFUMBWE CONFLUENCE		NW KASEMPA
	135500	Copper	1122 TEBESHU	35	265881	8460560			NW KASEMPA
82	135531	Beryl	166 MUNSHIEMBA BERYL	35	734290	8459605	MKUSHI AREA. NEAR MUNSHIEMBA-LUNSEMFWA CONFLUENCE	60 KM EAST OF KAPIRI MPOSHI	C MKUSHI NORTH

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Distance	Prov/District
135531	291006	Beryl	2567 MUNSHIWEMBA	35	734290	8459605			C MKUSHI
83	135531	Emerald	166 MUNSHIWEMBA BERYL	35	734290	8459605	MKUSHI AREA, NEAR MUNSHIWEMBA-LUNSEMFWA CONFLUENCE	60 KM EAST OF KAPIRI MPOSHI	C MKUSHI NORTH
135531	291006	Emerald	2567 MUNSHIWEMBA	35	734290	8459605			C MKUSHI
84	135531	Gold	166 MUNSHIWEMBA BERYL	35	734290	8459605	MKUSHI AREA, NEAR MUNSHIWEMBA-LUNSEMFWA CONFLUENCE	60 KM EAST OF KAPIRI MPOSHI	C MKUSHI NORTH
135531	291006	Gold	2567 MUNSHIWEMBA	35	734290	8459605			C MKUSHI
85	135534	Ilmenite	172 CHINKOMBE	36	317519	8459923	11 KM NW OF SASARE MINE 28KM EAST AND NORTH OF PETAUKE, NEAR CHINKOMBE STREAM	58 KM NORTH OF PETAUKE	E PETAUKE
135534	311840	Ilmenite	1209 CHINKOMBE ILMENITE	36	317519	8459923	11 KM NW OF SASARE MINE, 58 KM FROM PETAUKE		E CHIPATA
86	135534	Titanium	172 CHINKOMBE	36	317519	8459923	11 KM NW OF SASARE MINE 28KM EAST AND NORTH OF PETAUKE, NEAR CHINKOMBE STREAM	58 KM NORTH OF PETAUKE	E PETAUKE
135534	311840	Titanium	1209 CHINKOMBE ILMENITE	36	317519	8459923	11 KM NW OF SASARE MINE, 58 KM FROM PETAUKE		E CHIPATA
87	135600	Copper	1082 CHIMENA 11	35	271302	8458764			NW KASEMPA
135600	245300	Copper	1126 KABVINDA	35	271302	8458764	5 MILES UPSTREAM OF DONGWE/MUFMBWE CONFLUENCE ON DONGWE		NW KASEMPA
88	135740	Copper	144 CHIFUMPA	35	426187	8457833	500 METRES NE OF THE KASEMPA MUMBWA ROAD	80 KM SE OF KASEMPA	NW KASEMPA
135740	261832	Copper	1334 CHIFUMPA	35	426330	8456600	60 KM SSE KASEMPA, 4KM N OF CHIFUMPA PANTOON ON KASEMPA RD.		NW KASEMPA
89	135807	Copper	1144 NIL DESPERANDUM	35	599550	8455700	771 KM W OF KAPIRI MPOSHI		CB NDOLA RURAL
135807	275518	Copper	1265 NIL DESPERANDUM	35	599550	8455700	E OF CONFLUENCE OF LUKANDA AND MKOMBWE RIVERS AND TO W OF RAILWAY LINE		CB NDOLA RURAL
135807	275518	Copper	1268 EUREKA	35	599550	8455700	DIRECTLY TO W. OF NIL DESPERANDUM PROSPECT.		OB NDOLA RURAL
90	135807	Gold	1144 NIL DESPERANDUM	35	599550	8455700	771 KM W OF KAPIRI MPOSHI		CB NDOLA RURAL
135807	275518	Gold	1265 NIL DESPERANDUM	35	599550	8455700	E OF CONFLUENCE OF LUKANDA AND MKOMBWE RIVERS AND TO W OF RAILWAY LINE		CB NDOLA RURAL
91	135803	Copper	636 MTUGA MINE	35	728439	8454480	53KM EAST OF KAPIRI MPOSHI ADJACENT TO MUNSHIWEMBA MINE.		C MKUSHI SOUTH
135819	290653	Copper	637 MTUGA	35	728439	8454480	30KM E OF KAPIRI MPOSHI UPPER LUNSEMFWA, 2.5 M SW OF MUNSHIWEMBA		C MKUSHI SOUTH
135819	290653	Copper	2528 MTUGA MINE	35	728439	8454480			C MKUSHI SOUTH
92	140100	Lead	218 MILLBERG	35	670996	8449994	KAPIRI MPOSHI AREA	45 KM NORTH OF KABWE (10 KM OFF RAILWAY LINE)	C KABWE
140100	283500	Lead	2159 MILLBERG	35	670996	8449994	13 KM SW OF KAPIRI MPOSHI		C KABWE
93	140100	Zinc	218 MILLBERG	35	670996	8449994	KAPIRI MPOSHI AREA	45 KM NORTH OF KABWE (10 KM OFF RAILWAY LINE)	C KABWE
140100	283500	Zinc	2159 MILLBERG	35	670996	8449994	13 KM SW OF KAPIRI MPOSHI		C KABWE
94	140113	Graphite	2111 MAKONDE RIVER	36	305241	8449424	30 KM NNW OF PETAUKE.		E PETAUKE
140113	311148	Graphite	2502 NKONDA	36	305252	8449431			E CHIPATA
95	140400	Copper	182 SHINGANDA	35	298439	8444239	KALENGWA AREA	70 KM SSE OF KALENGWA, STRADDLING THE KAOMA	NW KASEMPA
140400	250800	Copper	1628 SHINGANDA	35	298439	8444239	200M W OF MANKOYA RD. 110 KM SW OF KASEMPA		NW KASEMPA
96	140616	Aquamarine	2435 KAMUNE	35	176087	8438782	ALONG FIWILA MISSION-ALONG CHIEF MBOROMA ROAD		NW KASEMPA
140616	240002	Aquamarine	2533 KAMUNE MINE	35	176096	8438792			NW KASEMPA
97	140616	Tourmaline	2435 KAMUNE	35	176087	8438782	ALONG FIWILA MISSION-ALONG CHIEF MBOROMA ROAD		NW KASEMPA
140616	240002	Tourmaline	2533 KAMUNE MINE	35	176096	8438792			NW KASEMPA
98	141100	Gold	227 KATIE	35	814849	8430170	FIWILA MISSION	40 KM SE OF FIWILA MISSION	C MKUSHI NORTH
141100	295500	Gold	513 KATIE	35	814849	8430170	40KM SE OF FIWILA MISSION		C MKUSHI NORTH
99	141200	Manganese	206 LUBEMBA	35	688849	8429584	KABWE AREA	42 KM NE OF KABWE	C KABWE
141200	284500	Manganese	2145 LUBEMBA	35	688849	8429584	43 KM NE OF KABWE		C KABWE
100	141915	Copper	237 MPONGO	36	194333	8415520	LUKUSASHI VALLEY - 3 KM FROM EAST BANK OF THE LUKUSHASHI RIVER	240 KM EAST OF KABWE, 31 KM SE OF MBOROMA	C MKUSHI SOUTH
141915	301030	Copper	426 MPONGO	36	195200	8415000	89 KM NW OF PETAUKE, IN THE LUANGWA VALLEY.		E PETAUKE
101	141915	Lead	237 MPONGO	36	194333	8415520	LUKUSASHI VALLEY - 3 KM FROM EAST BANK OF THE LUKUSHASHI RIVER	240 KM EAST OF KABWE, 31 KM SE OF MBOROMA	C MKUSHI SOUTH
141915	301030	Lead	426 MPONGO	36	195200	8415000	89 KM NW OF PETAUKE, IN THE LUANGWA VALLEY.		E PETAUKE
102	141915	Zinc	237 MPONGO	36	194333	8415520	LUKUSASHI VALLEY - 3 KM FROM EAST BANK OF THE LUKUSHASHI RIVER	240 KM EAST OF KABWE, 31 KM SE OF MBOROMA	C MKUSHI SOUTH

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTM2/UTMEast	UTMNorth	Locality	Distance	Provi/District
141915	301030	Zinc	428 MPONGO	36 195200	8415000	89 KM NW OF PETAUKE, IN THE LUANGWA VALLEY.		E PETAUKE
103 141915	301030	Iron	428 MPONGO	36 195200	8415000	89 KM NW OF PETAUKE, IN THE LUANGWA VALLEY.		E PETAUKE
141915	301030	Iron	452 MPONGO	36 195238	8415070	SAME AS RECORD 433 , BUT HERE THE MAIN COMMODITY IS IRON		E PETAUKE
104 141946	311905	Graphite	2163 MVUYE	36 318600	8415318	3KM S OF THE GREAT EAST ROAD NEAR PETAUKE OFF CHIEF MUMBINTU ROAD		E PETAUKE
141946	311905	Graphite	2503 KALINDAWALO	36 318593	8415308	AROUND A DAM, 7 KM TO SOUTH OF PETAUKE BOMA		E PETAUKE
105 142049	303622	Lead	233 UMBA RIVER	36 244725	8414241	WITHIN WESTERN PART OF FORMER NYIMBA MINING LICENCE 123, 8 KM NNW OF NYIMBA TOWN	ABOUT 370 ROAD KM ENE OF LUSAKA, 85 KM WEST O E	E PETAUKE
142049	303622	Lead	496 UMBA RIVER	36 241800	8412700	2.5 KM N OF SIMPETA		E PETAUKE
106 142049	303622	Zinc	233 UMBA RIVER	36 244725	8414241	WITHIN WESTERN PART OF FORMER NYIMBA MINING LICENCE 123, 8 KM NNW OF NYIMBA TOWN	ABOUT 370 ROAD KM ENE OF LUSAKA, 85 KM WEST O E	E PETAUKE
142049	303622	Zinc	496 UMBA RIVER	36 241800	8412700	2.5 KM N OF SIMPETA		E PETAUKE
107 142639	292058	Aquamarine	2520 KABOL OLOWE	35 753283	8402002			C MKUSHI SOUTH
142639	292058	Aquamarine	2579 KABOLOWE	35 753283	8402002	OLD MKUSHI		C MKUSHI
108 142700	263000	Copper	2241 JAMBEZI	35 446110	8402586	83 KM NW OF MUMBWA, 5 KM N OF KAFUE R. 7 KM E OF ROAD.		NW KASEMPA
142700	263000	Copper	2294 MO 341	35 446110	8402586	81 KM NW OF MUMBWA		NW KASEMPA
109 142700	263000	Gold	2241 JAMBEZI	35 446110	8402586	83 KM NW OF MUMBWA, 5 KM N OF KAFUE R. 7 KM E OF ROAD.		NW KASEMPA
142700	263000	Gold	2294 MO 341	35 446110	8402586	81 KM NW OF MUMBWA		NW KASEMPA
110 142800	282600	Lead	207 AIRFIELD AREA	35 654487	8400319	SOUTH-CENTRAL PART OF BROKEN HILL MINING LICENCE ML 1	IMMEDIATELY SOUTH OF THE No. 2 OREBODY, 1.5 KM C	KABWE
142800	282600	Lead	208 AVENUE AREA	35 654487	8400319	CENTRAL PART OF BROKEN HILL MINING LICENCE ML 1	IMMEDIATELY TO THE EAST OF THE MINE PLANT	C KABWE
142800	282600	Lead	210 KASHITU AND OLD GRAIN STORE	35 654487	8400319	SE CORNER OF BROKEN HILL MINING LICENCE ML 1	6 KM SE OF MAIN MINE AREA AND 200 M NORTH OF 5	C KABWE
142800	282600	Lead	211 MINE CLUB & SPEAK'S AREA	35 654487	8400319	NORTH-CENTRAL PART OF BROKEN HILL MINING LICENCE ML 1	DEPOSITS LIE BETWEEN GREAT NORTH ROAD & MINE C	KABWE
142800	282600	Lead	214 KABWE MINE	35 654487	8400319	KABWE DIVISION'S BROKEN HILL MINING LICENCE AREA - ML 1	IN TOWN OF KABWE, 140 ROAD KM NORTH OF LUSAKA	C KABWE
111 142800	282600	Zinc	207 AIRFIELD AREA	35 654487	8400319	SOUTH-CENTRAL PART OF BROKEN HILL MINING LICENCE ML 1	IMMEDIATELY SOUTH OF THE No. 2 OREBODY, 1.5 KM C	KABWE
142800	282600	Zinc	208 AVENUE AREA	35 654487	8400319	CENTRAL PART OF BROKEN HILL MINING LICENCE ML 1	IMMEDIATELY TO THE EAST OF THE MINE PLANT	C KABWE
142800	282600	Zinc	210 KASHITU AND OLD GRAIN STORE	35 654487	8400319	SE CORNER OF BROKEN HILL MINING LICENCE ML 1	6 KM SE OF MAIN MINE AREA AND 200 M NORTH OF 5	C KABWE
142800	282600	Zinc	211 MINE CLUB & SPEAK'S AREA	35 654487	8400319	NORTH-CENTRAL PART OF BROKEN HILL MINING LICENCE ML 1	DEPOSITS LIE BETWEEN GREAT NORTH ROAD & MINE C	KABWE
142800	282600	Zinc	214 KABWE MINE	35 654487	8400319	KABWE DIVISION'S BROKEN HILL MINING LICENCE AREA - ML 1	IN TOWN OF KABWE, 140 ROAD KM NORTH OF LUSAKA	C KABWE
112 143000	290500	Manganese	231 KAMPUMBA	35 724534	8396093	12.8 KM SW OF THE LUNSEMFWA POWER STATION	78 KM BY ROAD FROM KABWE	C KABWE
143000	290500	Manganese	520 KAMPUMBA	35 724534	8396093	50KM MILES ESE OF KABWE AND 4 MILES W OF THE LUNSEMFWA		C KABWE
113 143245	291704	Copper	2523 KALANDO STREAM	35 746180	8390809			C MKUSHI SOUTH
143245	291704	Copper	2580 KALANDO	35 746180	8390805	LIES 10KM SOUTH EAST OF CHIEF KAYEMBE IN MKUSHI		C MKUSHI
114 143332	292318	Graphite	516 NUMBU GRAPHITE	35 757354	8389254	SOUTH OF MKUSHI AND ON N. SIDE OF LUANO VALLEY.		C MKUSHI SOUTH
143332	292318	Graphite	2518 NUMBU	35 757344	8389242	AT THE SOURCE OF THE NUMBU STREAM		C MKUSHI SOUTH
115 143403	291307	Copper	2524 TANDALWE	35 739047	8388492			C MKUSHI SOUTH
143403	291307	Copper	2555 TANDALWE	35 739047	8388492	ABOUT 20KMW OF KANGENSHYA VILLAGE EAST OF OLD MKUSHI		C MKUSHI NORTH
116 143618	264852	Silver	194 SILVER KING	35 480000	8385500	13 KM NW OF THE SABLE ANTELOPE MINE	53 KM NORTHWEST OF MUMBWA	C MUMBWA
143618	264852	Silver	2328 SILVER KING	35 480000	8385500	9.5 KM W OF SABLE ANTELOPE		C MUMBWA
117 143717	304509	Limestone	1161 JUMBE LIMESTONE	36 257897	8382492	110 KM NW OF CHIPATA		E NYIMBA
143717	304509	Limestone	1163 FEDERATED	36 257897	8382492	AWALGAMATED LIME WORKS, FORT JAMESON.		E NYIMBA
118 143756	265352	Copper	193 SABLE ANTELOPE	35 489000	8382500	MUMBWA DISTRICT	40 KM NORTHWEST OF MUMBWA	C MUMBWA
143756	265352	Copper	2319 SABLE ANTELOPE	35 489000	8382500	43 KM BEARING 336 FROM MUMBWA		C MUMBWA
119 144400	280600	Gold	228 LITETA	35 613012	8367360	MWOMBOSHI AREA	73 KM NNW OF LUSAKA	LK LUSAKA
144400	280600	Gold	2178 LITETA	35 618413	8371021	48 KM SW OF KABWE		C KABWE URBAN
120 145300	282900	Copper	223 KAMANO	35 659575	8354191	MWOMBOSHI GROUP		LK LUSAKA
145300	282900	Copper	2200 KAMANO (TORTOISE)	35 659575	8354191	13 KM NE OF CHISAMBA	80 KM NE OF LUSAKA	C KABWE RURAL

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTM2	UTMEast	UTMNorth	Locality	Distance	Prov/District
121	145300	Gold	223 KAMANO	35	659575	8354191	MWOMBOSHI GROUP	80 KM NE OF LUSAKA	LK LUSAKA
	145300	Gold	2200 KAMANO (TORTOISE)	35	659575	8354191	13 KM NE OF CHISAMBA		C KABWE RURAL
122	145819	Bismuth	238 NCHONCHO	36	181300	8342800	0.3 KM SOUTH OF THE GREAT EAST ROAD. 43 KM EAST OF RUFUNSA	211 KM BY ROAD EAST OF LUSAKA	E RUFUNSA
	145819	Bismuth	458 NCHONCHO BISMUTH	36	181300	8342800	ABOUT 70KM. S OF GREAT EAST ROAD. 198KM FROM LUSAKA	198KM FROM LUSAKA	E PETAUKE
123	150000	Gold	230 BUFFALO - QUAGGA, CHATEKA	35	759883	8340400	WESTERN END OF LUNSEMFWA VALLEY	125 KM NE OF LUSAKA	LK LUSAKA
	150000	Gold	1835 RUFUNSA	35	759883	8340400	26 KM WNW OF RUFUNSA		LK LUSAKA
124	150200	Gold	225 KAPUTA	35	657672	8337609	MWOMBOSHI GROUP	50 KM NE OF LUSAKA	LK LUSAKA
	150200	Gold	1682 KAPUTA	35	657672	8337609	11 KM SE OF CHISAMBA		LK LUSAKA
125	150238	Beryl	1603 RMC 135	36	180400	8334800	32 KM NW OF KATONDWE		LK LUSAKA
	150238	Beryl	1608 RMC 132	36	180400	8334800	32 KM NW OF KATONDWE		E LUANGWA
126	150841	Copper	253 CHANOBIE	35	512535	8327069	CENTRAL REGION OF ZAMBIA	25 KM SOUTH OF MUMBWA	C MUMBWA
	150841	Copper	1818 CHANOBIE	35	513700	8325800	20KM SSE OF MUMBWA.		C MUMBWA
127	150841	Silver	253 CHANOBIE	35	512535	8327069	CENTRAL REGION OF ZAMBIA	25 KM SOUTH OF MUMBWA	C MUMBWA
	150841	Silver	1818 CHANOBIE	35	513700	8325800	20KM SSE OF MUMBWA.		C MUMBWA
128	151500	Bismuth	261 PALA DARG GROUP	35	687947	8313414	CHINYUNYU OR UNDA - UNDA OR MULOFWA DOME	75 KM ENE OF LUSAKA	LK LUSAKA
	151500	Bismuth	1669 PALA DARG	35	687947	8313414	70 KM ENE OF LUSAKA . 6 KM N OF GREAT EAST ROAD		LK LUSAKA
129	151500	Gold	261 PALA DARG GROUP	35	687947	8313414	CHINYUNYU OR UNDA - UNDA OR MULOFWA DOME	75 KM ENE OF LUSAKA	LK LUSAKA
	151500	Gold	1669 PALA DARG	35	687947	8313414	70 KM ENE OF LUSAKA . 6 KM N OF GREAT EAST ROAD		LK LUSAKA
130	151523	Niobium	311 CHASWETA	36	208294	8303123	12 KM ESE OF KATONDWE MISSION	75 KM ESE OF RUFUNSA	E LUANGWA
	151523	Niobium	1611 CHASWETA	36	207023	8311627	12 KM SSE OF KATONDWE MISSION		E LUANGWA
131	151523	Phosphate	311 CHASWETA	36	208294	8303123	12 KM ESE OF KATONDWE MISSION	75 KM ESE OF RUFUNSA	E LUANGWA
	151523	Phosphate	1611 CHASWETA	36	207023	8311627	12 KM SSE OF KATONDWE MISSION		E LUANGWA
132	151547	Zinc	271 STAR ZINC	35	632418	8308263	LUSAKA DISTRICT	19 KM NORTH OF LUSAKA, 1.6 KM WEST OF THE GREAT	LK LUSAKA
	151547	Zinc	1946 STAR ZINC	35	633800	8312350	16 KM NNW OF LUSAKA	LUSAKA	LK LUSAKA
133	151600	Copper	273 KASISI	35	657499	8311795	LUSAKA AREA	28 KM NE FROM LUSAKA	LK LUSAKA
	151600	Copper	1988 KASISI	35	657499	8311795	25 KM NE OF LUSAKA		LK LUSAKA
134	151600	Gold	273 KASISI	35	657499	8311795	LUSAKA AREA	28 KM NE FROM LUSAKA	LK LUSAKA
	151600	Gold	1988 KASISI	35	657499	8311795	25 KM NE OF LUSAKA		LK LUSAKA
135	151722	Mica	1595 ATLAS MICA	36	210000	8308000	ON LUANGWA R. MIDWAY BETWEEN KALUNDWE AND KAPOCHE		LK LUSAKA
	151722	Mica	1761 WILD 'B' HAPPY 'B'	36	210000	8308000	ON LUANGWA R. MIDWAY BETWEEN KALUNDWE AND KAPOCHE.		LK LUSAKA
136	152000	Gold	264 CHISOLAKI - LUSOKE AND CHANYEN	35	678924	8304265	CHONGWE RIVER AREA	40 KM ENE OF LUSAKA	LK LUSAKA
	152000	Gold	1983 CHISOLAKI & LUSOKE	35	678924	8304265	40 KM ENE OF LUSAKA		LK LUSAKA
137	152000	Gold	300 KAURASHISHI	35	797078	8303055	RUFUNSA AREA	28 KM SSE OF RUFUNSA	LK RUFUNSA
	152000	Gold	1812 KAURASHISHI	35	797078	8303055	28 KM SSE OF RUFUNSA		LK LUSAKA
138	152100	Gold	292 KAURASHISHI EAST	35	800636	8301164	RUFUNSA AREA	33 KM SSE OF RUFUNSA	LK RUFUNSA
	152100	Gold	1808 KAURASHISHI EAST	35	800636	8301164	33 KM SSE OF RUFUNSA		LK LUSAKA
139	152200	Gold	272 MUTATESHA	35	703949	8300370	CHONGWE AREA	70 KM ESE OF LUSAKA	LK LUSAKA
	152200	Gold	1931 MUTATESHA	35	703949	8300370	70 KM ESE OF LUSAKA.		LK LUSAKA
140	152300	Copper	295 KAMAKONDE	35	782640	8294009	LOWER ZAMBEZI NATIONAL PARK	120 KM EAST OF LUSAKA	LK LUSAKA
	152300	Copper	1763 KAMAKONDE	35	784475	8297677	6 KM NNW OF CHAKWENGA		LK LUSAKA
141	152300	Gold	295 KAMAKONDE	35	782640	8294009	LOWER ZAMBEZI NATIONAL PARK	120 KM EAST OF LUSAKA	LK LUSAKA
	152300	Gold	1763 KAMAKONDE	35	784475	8297677	6 KM NNW OF CHAKWENGA		LK LUSAKA

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Distance	Prov/District
142	152600 275600 152600	Copper Copper	255 SANJE COPPER 2020 SANJE COPPER	35	600141 600141	8293676 8293676	LUSAKA DISTRICT 1 KM ENE OF SANJE HILL (MO238)	ABOUT 30 KM SW OF LUSAKA	LK LUSAKA LUSAKA
143	152600 293400 152600	Gold Gold	301 MOIYA 1809 MOIYA	35	775458 775458	8292250 8292250	LOWER ZAMBEZI NATIONAL PARK 4 KM W OF CHAKWENGA	4 KM WEST OF CHAKWENGA	LK RUFUNSA RUFUNSA
144	152700 292100 152700	Copper Copper	302 MISANGOMBE 1798 MISANGOMBE	35	752173 752173	8290671 8290671	RUFUNSA AREA 50 KM SW OF RUFUNSA, 37 KM SE ON BUSH TRACK FROM GER 103 KM PEG.	104 KM EAST OF LUSAKA AND 37 KM SOUTH ON A BULL	LK LUSAKA LUSAKA
145	152800 275500 152800	Iron Iron	249 NAMPUNDWE 2019 NAMPUNDWE	35	598337 598337	8289997 8289997	LUSAKA-SANJE AREA 40 KM WSW OF LUSAKA	40 KM WSW OF LUSAKA	LK LUSAKA LUSAKA
146	152800 275500 152800	Sulphur Sulphur	249 NAMPUNDWE 2019 NAMPUNDWE	35	598337 598337	8289997 8289997	LUSAKA-SANJE AREA 40 KM WSW OF LUSAKA	40 KM WSW OF LUSAKA	LK LUSAKA LUSAKA
147	153000 280800 153000	Zinc Zinc	269 WHITE ROCK 2073 WHITE ROCK	35	621564 621564	8286198 8286198	LUSAKA DISTRICT 1 KM E OF SANJE HILL (MO238)	ABOUT 35 KM SW OF LUSAKA (08 KM EAST OF SANJE)	LK LUSAKA LUSAKA
148	153000 291900 153000	Gold Gold	303 IKONDO - NYAOSA 1824 IKONDO - NYAOSA	35	748535 748535	8285176 8285176	WEST EDGE OF THE LOWER ZAMBEZI NATIONAL PARK 56 KM SSW OF RUFUNSA	100 KM EAST OF LUSAKA	LK LUSAKA LUSAKA
149	153100 291500 153100	Copper Copper	310 CHINDULWE 1836 CHINDULWE	35	739572 741360	8283427 8283408	WEST EDGE OF LOWER ZAMBEZI NATIONAL PARK 10 KM N OF NENINGOMBE, 63 KM SW OF RUFUNSA	100 KM EAST OF LUSAKA	LK LUSAKA LUSAKA
150	153100 291500 153100	Gold Gold	310 CHINDULWE 1836 CHINDULWE	35	739572 741360	8283427 8283408	WEST EDGE OF LOWER ZAMBEZI NATIONAL PARK 10 KM N OF NENINGOMBE, 63 KM SW OF RUFUNSA	100 KM EAST OF LUSAKA	LK LUSAKA LUSAKA
151	153400 285200 153400	Gold Gold	277 CHUMBWE 1910 CHUMBWE	35	698602 700177	8276302 8278271	LUSAKA AREA 80 KM ESE OF LUSAKA, 13 KM NE OF LEOPARDS HILL	64 KM ESE OF LUSAKA	LK LUSAKA LUSAKA
152	153600 292500 153600	Nickel Nickel	309 PAULWI HILL 1798 PAULWI HILL	35	759143 759143	8273989 8273989	NORTH BANK OF ZAMBEZI RIVER 9 KM N OF ZAMBEZI R. 64 KM SSW OF RUFUNSA	120 KM ESE OF LUSAKA	LK LUSAKA C RUFUNSA
153	153900 284500 153900	Gold Gold	279 TOSARU 1658 TOSARU	35	687587 687587	8269156 8269156	MPANDA DOME AREA 50 KM E OF CHIPONGWE	75 KM SE OF LUSAKA	LK LUSAKA LUSAKA
154	154100 280600 154100	Copper Copper	274 MOOLA 1967 MOOLWE	35	617883 617883	8265937 8265937	LUSAKA AREA 35 KM SW OF LUSAKA	35 KM SW OF LUSAKA	LK LUSAKA LUSAKA
155	154100 280600 154100	Gold Gold	274 MOOLA 1967 MOOLWE	35	617883 617883	8265937 8265937	LUSAKA AREA 35 KM SW OF LUSAKA	35 KM SW OF LUSAKA	LK LUSAKA LUSAKA
156	154940 283645 154940	Corundum Corundum	1675 MVULA CORUNDUM 3178 MUKWISI	35	672700 672700	8249600 8249600	8 KM NNW JUNCTION KAFUE R. AND KALEYA STREAM. MVULA STREAM SOUTH OF LUSAKA		LK LUSAKA LUSAKA
157	155038 280215 155038	Clay Clay	1667 NEGA NEGA 2038 NEGA NEGA	35	611097 611097	8248210 8248210	ADJACENT TO MAKANEGA RIVER NEAR NEGA-NEGA SIDING 10 KM SW OF NEGA-NEGA		LK LUSAKA S MAZABUKA
158	161257 281708 161257	Mica Mica	327 SACHENGA GROUP GEMS 417 SACHENGA GROUP	35	637400 637400	8206900 8206900	MINES ON THE LUISITA RIVER 70 KM SE OF MAZABUKA, 15 KM E OF CHIKANKATA	70 KM SE OF MAZABUKA, 15 KM EAST OF CHIKANKATA	S CHIKANKATA S CHIKANKATA
159	162412 284440 162412	Amethyst Amethyst	328 KAPILSIANGWE 337 KAPILSIANGWE	35	686280 686280	8185804 8185804	EAST OF SIAVONGA ROAD 13 KM N OF KARIWA DAM	25 KM SOUTH OF CHIRUNDU	S SIAVONGA S SIAVONGA
160	162948 282815 162948	Uranium Uranium	3185 DIMBWE 3186 BUNGUA SIAVONGA	35	657000 657000	8175700 8175700			S SIAVONGA S SIAVONGA
161	163209 284050 163209	Fluorspar Fluorspar	338 SIAVONGA 2420 SIAVONGA HARBOUR	35	679332 679332	8171197 8171197	2.5 KM WEST OF SIAVONGA HARBOUR LIES ON THE WESTERN END OF THE SIAVONGA HARBOUR		S GWEHRE S SIAVONGA

Appendix IV-3 (1) Duplicates for Occurrence name and coordinates

Lat	Long	Commodity	Occurrence name	UTM2/UTMEast	UTMNorth	Locality	Distance	Prov/District
162	165742	Mica	325 PHOENIX AND BUFFALO XIX AND XX	35 538003	8124813	EAST AND WEST OF THE ROAD FROM CHOMA TO SINAZONGWE	35 KM NW AND NORTH OF SINAZONGWE	S SINAZONGWE
165	165742	Mica	1551 PHOENIX	35 538003	8124813	53 KM BY ROAD ESE OF CHOMA, ON EDGE OF ZAMBEZI ESCARPMENT		S SINAZONGWE
163	170500	Diamond	321 LUSU	35 239257	8109751	ADJOINS THE BOTSWANA BORDER	SESHEKE IS ON THE SOUTH EDGE	W MULOBETI
170500	243300	Diamond	1557 LUSU	35 239257	8109751	BETWEEN S AND W PROVINCES		W MULOBETI
164	171210	Tin	2640 KALOBELA -KASESA	35 516113	8098155	NEAR MASUKU MISSION		S CHOMA
171210	270906	Tin	2645 MALOMO	35 516122	8098175	AROUND MASUKU MISSION		S CHOMA
165	171321	Tin	1741 MASUKU SOUTH 2	35 512400	8096000	2 KM S. OF MASULU MISSION		S CHOMA
171321	270700	Tin	1743 ROBERT	35 512400	8096000	2KM S. OF MASUKU MISSION		S CHOMA
171321	270700	Tin	1749 MASUKU SOUTH 1	35 512400	8096000	2 KM S. OF MASUKU MISSION		S CHOMA
166	173131	Tin	1497 KABANGA 916623	35 493500	8062500	ABOUT 18 KM. E. OF KABANGA MISSION		S KALOMO
173131	265620	Tin	1498 KABANGA 922622	35 493500	8062500	ABOUT 18 KM. E. OF KABANGA MISSION		S KALOMO
173131	265620	Tin	1500 KABANGA 928629	35 493500	8062500	18 KM. E. OF KABANGA MISSION		S KALOMO
167	173413	Tin	1493 KABANGA 791568	35 479500	8057500	7KM. S.E. OF KABANGA MISSION		S KALOMO
173413	264825	Tin	1513 KABANGA 804582	35 479500	8057500	ABOUT 7 KM. S.E. OF KABANGA MISSION		S KALOMO
168	173430	Tin	1492 KABANGA 808584	35 480000	8057000	ABOUT 8 KM. S.E. OF KABANGA MISSION.		S KALOMO
173430	264841	Tin	1502 R AND C MINE	35 480000	8057000	13 KM S.E. OF KABANGA MISSION		S KALOMO
169	132824	Aquamarine	2432 CHIBOLELE (SERENJE)	36 222223	8509207	35 KM EAST OF SERENJE		C SERENJE
132824	242604	Aquamarine	2581 CHIBOLELE	35 222223	8509207			C MKUSHI
170	132824	Tourmaline	2432 CHIBOLELE (SERENJE)	36 222223	8509207	35 KM EAST OF SERENJE		C SERENJE
132824	242604	Tourmaline	2581 CHIBOLELE	35 222223	8509207			C MKUSHI
171	130147	Diamond	109 PANELA	36 420900	8559600	AREA SURROUNDS THE FORMER LIME WORKS NEAR THE MWANGAZI RIVER	75 KM NW OF CHIPATA 20 KM EAST OF THE CHIPATA-E	LUNDAZI
130143	321618	Diamond	1185 PANELA 4	36 420900	8559600			CHIPATA
172	125021	Gold	885 KABANGA 13 MILES NNW	35 531680	8580750	13 MILES NNW OF KABANGA.		CB CHINGOLA
125800	274200	Gold	908 KABANGA 21 MILES ENE	35 531680	8580750	21 MILES ENE OF KABANGA		CB NDOLA RURAL
173	145847	Gold	229 JESSIE MINE	35 754500	8342700	LUNSEFWA VALLEY	135 KM ENE OF LUSAKA	LK LUSAKA
145600	293300	Gold	519 JESSIE	35 754500	8342700	27 KM WNW OF RUFUNSA		C MKUSHI SOUTH
174	094500	Diamond	6 KALUNGWISHI	35 818420	8916540	THE KALUNGWISHI RIVER BISECTS THE AREA	THE CENTRE OF THE AREA IS 50 KM N LUMINGU. A R/LP	KAWAMBWA
094724	295408	Diamond	673 KALUNGWISHI P.L. 78	35 818420	8916540	ABOUT 50KM SSW OF MPOKOKOSO		MPOKOKOSO
			Large Different Distance					
			Same Lat/Lon, Different UTM					
			Same UTM Different Lat/Lon					
201	094724	Salt	650 KAFULWE	35 818420	8916540	ON THE KALUNGWISHI RIVER		LP KAWAMBWA
094724	295408	Diamond	673 KALUNGWISHI P.L. 78	35 818420	8916540	ABOUT 50KM SSW OF MPOKOKOSO		N MPOKOKOSO
202	102428	Iron	557 MYABA	35 765700	8848600	60 KM WSW OF LUMINGU		N LUBANSESHI
102428	292536	Manganese	2732 MYABA	35 765700	8848600			N LUBANSESHI
203	103923	Coal	701 LUSANGANI COAL	36 516300	8822100	15 MILES NW OF SWESWE HILL		N ISOKA EAST
103923	331002	Copper	1794 CHISUA	36 516300	8822100	10 KM ESE OF CHAKWENGA		E ISOKA
204	111158	Manganese	569 FORT ROSEBERY (MANS)	35 707910	8761400	LUAPULA DISTRICT		LP MANSA
111158	285415	Hot spring	605 MANSA	35 707910	8761400	ON BANKS OF MANSWA RIVER WITHIN TOWNSHIP AREA		LP MANSA
111158	285415	Salt	605 MANSA	35 707910	8761400	ON BANKS OF MANSWA RIVER WITHIN TOWNSHIP AREA		LP MANSA
205	113800	Salt	771 CHIBWA SWAMP	36 514534	8714102	CHIBWA SWAMP IN THE LWITIKILA RIVER VALLEY, ABOUT 12 MILES SW OF MPIKA		E CHASEFU
113800	330800	Mica	712 MANDA HILL	36 514534	8714102	6 MILES WSW OF MANDA HILL (ON MALAWI BORDER)		E CHAMA NORTH
206	115558	Copper	719 KALUMBILA HILL	35 336283	8680546	25 MILES N OF NINE OF KALUMBILA HILL		NW SOLWEZI WEST
115558	252948	Topaz	3122 MISAMBO	35 336283	8680546			NW IMMINILUNGA

Appendix IV-3 (2) Duplicates for Occurrence Locality

Occurrence name	UTMzone	UTMEast	UTMNorth	Locality	Distance	Province	District	Constituent	GSnumber	Alternativenet	Confidential	Lat	Long	Sheet number
2117 LUWANIKA				1.5 KM W OF CHILIBALULU								0		
2120 CHITOBO				1.5 KM W OF CHILIBALULU								0		
2181 KAKONKWEHI				1.5 KM W OF CHILIBALULU								0		
373 SIAMPANPWA	35	644500	8199500	11 KM SE OF SACHENGA MINE		S	SIAVONGA		132			0.161657	282108	1628
453 SIAKALINDI	35	645000	8199000	11 KM SE OF SACHENGA MINE		S	SIAVONGA		132			0.161713	282125	1628
313 MWAMBUTO	36	195734	8304808	12 KM SW OF KATONDWE MISSION	70 KM ESE OF RUFUNSA	E	RUFUNSA		74			0.151747	300536	1530
1614 MWAMBUTO	36	196500	8303000	12 KM SW OF KATONDWE MISSION		E	LUANGWA		71			0.151959	301025	1530
2160 MO 186B	35	687000	8362000	15 KM SW OF MULUNGUSHI DAM WALL		C	KABWE RURAL		5 186b			0.144839	284415	1428
2191 MO 186F	35	687700	8364500	15 KM SW OF MULUNGUSHI DAM WALL		C	KABWE RURAL		5 186f			0.144718	284438	1428
781 KALINKU GRAPHITE	36	531400	8770300	16 KM NE CHAMA		E	CHAMA SOUTH		40			0.110730	331715	1133
782 KALINKU TALC	36	530800	8770400	16 KM NE CHAMA		E	CHAMA SOUTH		40			0.110727	331655	1133
1803 KAYENDA	35	799105	8321484	17 KM SE OF RUFUNSA		LK	RUFUNSA		74 130			0.151000	284700	1529
1837 RUFUNSA	35	797266	8317817	17 KM SE OF RUFUNSA		LK	RUFUNSA		78 132	RMC 126		0.151200	284600	1529
1708 DOUGLAS	35	513300	8097000	1KM S.E. OF MASUKU MISSION		S	CHOMA		115			0.171248	270730	1727
1755 FREDERICK	35	512200	8097200	1KM S.E. OF MASUKU MISSION		S	CHOMA		115			0.171242	270653	1727
978 NKOMBWA HILL	36	483400	8877800	24 KM E. OF ISOKA	ISOKA	N	ISOKA EAST		85			0.100910	325054	1032
993 NKOMBWA HILL	36	483400	8877800	24 KM E. OF ISOKA		N	ISOKA		85			0.100910	325054	1032
2105 MULCHINDA	35	690300	8344600	30 KM E OF CHISAMBA		C	KABWE		5 651			0.145805	284610	1428
2123 KAPAMBALELA	35	690600	8346200	30 KM E OF CHISAMBA		C	KABWE RURAL		5 650	MO 650		0.145713	284620	1428
1603 RMC 135	36	180400	8334800	32 KM NW OF KATONDWE		LK	LUSAKA		78 123			0.150238	300140	1530
1606 RMC 132	36	180400	8334800	32 KM NW OF KATONDWE		E	LUANGWA		71 122			0.150238	300140	1530
1767 RUFUNSA	35	804193	8298272	33 KM SSE OF RUFUNSA		LK	LUSAKA		78 138	RMC 139		0.152200	295000	1529
1808 KAURASHISHI EAST	35	800636	8301164	33 KM SSE OF RUFUNSA		LK	LUSAKA		78 137			0.152100	294800	1529
1242 KAFUBU P.L. 54	35	626140	8558232	36 KM S OF KALULUSHI		OB	NDOLA		36			0.130224	280948	1328
1274 KAFUBU P.L. 54	35	625849	8558270	36 KM S OF KALULUSHI		OB	NDOLA		36			0.130224	280938	1328
1630 NAKAMBALA	35	607900	8249000	0.4 KM SE OF MAZABUKA		S	MAZABUKA		126 312C			0.155013	280027	1527
1638 MENDHAM	35	607900	8249000	4 KM SE OF MAZABUKA		S	MAZABUKA		126 312A			0.155013	280027	1528
906 KABANGA 40 MILES ENE	35	536800	8570500	40 MILES ENE OF KABANGA		OB	NDOLA RURAL		36 465a			0.125555	272021	1227
917 KABANGA	35	604861	8570165	40 MILES ENE OF KABANGA		OB	KALULUSHI		18 465b			0.125600	275800	1227
1647 KAUNGA	35	702900	8315500	70 KM ENE OF LUSAKA		LK	LUSAKA		78 253			0.151348	285320	1528
1678 KAYEBWE	35	706900	8316200	70 KM ENE OF LUSAKA		LK	LUSAKA		78 253D			0.151324	285534	1528
1686 CAIRN DHU GROUP	35	0	0	0.70 KM ENE OF LUSAKA		LK	LUSAKA		78			0.151231	285728	1528
1908 DEVONSHIRE	35	710300	8317800	70 KM ENE OF LUSAKA		LK	LUSAKA		78			0.151231	285728	1528
1962 POLLARDS SCHEELITE	35	708200	8322700	70 KM ENE OF LUSAKA		LK	LUSAKA		78			0.150952	285616	1528
1963 ITOPE	35	709700	8314700	70 KM ENE OF LUSAKA		LK	LUSAKA		78 252			0.151412	285708	1528
1976 LUCERE	35	709700	8314700	70 KM ENE OF LUSAKA		LK	LUSAKA		78 253G			0.151412	285708	1528
1320 BUFFALO CU	35	449100	8478500	75 KM E OF KASEMPA		NW	KASEMPA		106 476a			0.134549	263145	1326
1326 ZEBRA 2	35	442500	8478300	75 KM E OF KASEMPA		NW	KASEMPA		106 475c			0.134555	262805	1326
1327 ZEBRA 1	35	447510	8478000	75 KM E OF KASEMPA		NW	KASEMPA		106 475a			0.134605	263052	1326
1322 KANDEYO III	35	452000	8480900	80 KM E OF KASEMPA		NW	KASEMPA		106 477c			0.134431	263322	1326
1367 KANDEYO II	35	453000	8480700	80 KM E OF KASEMPA		NW	KASEMPA		106 477b			0.134438	263355	1326
2252 FINDNO I	35	440716	8404417	87 KM NW OF MUMBWA		C	MUMBWA		10 338			0.142600	282700	1426
2297 MATUMBA	35	436770	8401857	87 KM NW OF MUMBWA		C	MUMBWA		10 331			0.142723	282448	1426

Appendix IV-3 (2) Duplicates for Occurrence Locality

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Distance	Province	District	Constituent	GSnumber	Alternative	Confidential	Lat	Long	Sheet number
602	MWALASHI	35			8KM. E. FROM CONFLUENCE OF MWALASHI WITH LUAPULA RIVER.		LP	MANSA	61			0			1128
625	MWALASHI	35			8KM. E. FROM CONFLUENCE OF MWALASHI WITH LUAPULA RIVER.		LP	MANSA	61			0			1128
1645	CHUNGA DAMBO	35	0	0	ABOUT 6 MILES N OF LUSAKA		LK	LUSAKA	78			0			1528
1661	KABANGWE DAMBO	35	0	0	ABOUT 6 MILES N OF LUSAKA		LK	LUSAKA	78			0			1528
1491	KABANGA 800580	35	479600	80577000	ABOUT 7 KM. - S.E. OF KABANGA MISSION		S	KALOMO	120			0	173407	264828	1726
1513	KABANGA 804582	35	479500	80575000	ABOUT 7 KM. - S.E. OF KABANGA MISSION		S	KALOMO	120			0	173413	264825	1726
2644	CHINENU	35	520787	8101580	AROUND MASUKU MISSION		S	CHOMA	115			0	171019	271144	1727
2645	MALOMO	35	516122	8098175	AROUND MASUKU MISSION		S	CHOMA	115			0	171210	270906	1727
68	SAMBA	35	586877	8601560	CHAMBISHI - ML 19		OB	KALULUSHI	18			0	123900	274800	1227
92	ICHIMPE	35	624700	8592000	CHAMBISHI - ML 19	15 KM NW OF KITWE BETWEEN MUDOLA AND CHAMBISHI S	OB	KALULUSHI	18			0	124407	280855	1228
97	PITANDA	35	606823	8610707	CHAMBISHI - ML 19	27 KM NW OF KITWE	OB	KITWE	22			0	123400	275900	1227
2497	SINDE	35	382740	8051985	CHIEF MUKUNI AREA		S	LIVINGSTONE	123			0	173702	255341	1725
2636	KAZUNGULA 2	35	382539	8021957	CHIEF MUKUNI AREA		S	LIVINGSTONE	123			0	175319	255328	1725
2632	SIADAVETI 1	35	372650	8045935	CHIEF MUSOKOTWANE		S	LIVINGSTONE	123			0	174017	254758	1725
2633	SIADAVETI 2	35	375183	8049350	CHIEF MUSOKOTWANE		S	LIVINGSTONE	123			0	173826	254924	1725
2634	RUSININA HILLS	35	372550	8043390	CHIEF MUSOKOTWANE		S	LIVINGSTONE	123			0	174140	254754	1725
2635	RUSININA STREAM	35	372820	8043075	CHIEF MUSOKOTWANE		S	LIVINGSTONE	123			0	174150	254803	1725
2626	DUNDULIAS - KYATILA	35	377799	8050967	CHIEF MUSOKOTWANE AREA		S	LIVINGSTONE	123			0	173734	255053	1725
2630	SIANSIMBI 2	35	382867	8062071	CHIEF MUSOKOTWANE AREA		S	LIVINGSTONE	123			0	173134	255348	1725
260	KUANGA	35	702287	8315139	CHINYUNYU OR UNDA - UNDA OR MULOFWA DOME	80 KM EAST OF LUSAKA	LK	LUSAKA	78		CHINYUNYU	0	151400	285300	1528
298	KYEBWE	35	714789	8311339	CHINYUNYU OR UNDA - UNDA OR MULOFWA DOME	80 KM EAST OF LUSAKA	LK	LUSAKA	78			0	151600	290000	1529
261	PALA DARG GROUP	35	687947	8313414	CHINYUNYU OR UNDA - UNDA OR MULOFWA DOME	75 KM ENE OF LUSAKA	LK	LUSAKA	78	253E	UNDA-UN	0	151500	284500	1528
175	LUTEMBEWEE REEF	36	469363	8485667	CHIPATA AREA	10 KM SE FROM CHIPATA	E	CHIPATA	42			0	134200	324300	1332
176	MADZIMOYO GROUP	36	447736	8485533	CHIPATA AREA	148 KM NE OF PETAUKE	E	CHIPATA	42			0	134200	323100	1332
1167	CHIPATA AREA	36	0	0	CHIPATA AREA		E	CHIPATA	42			0			1332
588	BAHATI	35	702000	8779600	FORT ROSEBERRY AREA		LP	MANSA	61	4	LUCHIRA	0	110207	285056	1128
620	BAHATI CONCESSION	35	701900	8797600	FORT ROSEBERRY AREA		LP	MANSA (BAHAT)	59		MANSA	0	105221	285049	1028
863	SOLWEZI DAMBO	35	436000	8652000	IMMEDIATELY TO S OF SOLWEZI		NW	SOLWEZI EAST	111			0	121140	262442	1226
882	SOLWEZI DAMBO	35	446955	8658958	IMMEDIATELY TO S OF SOLWEZI		NW	SOLWEZI	110			0	120754	263045	1226
206	LUBEMBA	35	688849	8429584	KABWE AREA	42 KM NE OF KABWE	C	KABWE	5			0	141200	284500	1428
216	CAMARNOR ZINC	35	634854	8424401	KABWE AREA	ABOUT 35 KM NW OF KABWE	C	KABWE	5			0	141500	281500	1428
213	SEBEMBE COPPER ANE	35	641984	8413299	KABWE MINING DISTRICT	14 KM NW OF KABWE	C	KABWE	5			0	142100	281900	1428
215	KIWANDA	35	649130	8405883	KABWE MINING DISTRICT	5 KM WEST OF KABWE	C	KABWE	5	361		0	142500	282300	1428
118	KAMATELELU (M75/Q)	35	270803	8515934	KALENGWA AREA	14 KM MNW OF KALENGWA	NW	SOLWEZI				0	132500	245300	1324
121	INYATI	35	270914	8503025	KALENGWA AREA	16 KM SW OF KALENGWA	NW	SOLWEZI				0	133200	245300	1324
123	KARIBAREMBI	35	287465	8462592	KALENGWA AREA	49 KM SOUTH OF KALENGWA	NW	KASEMPA	106			0	135400	250200	1325
124	DWEJI	35	265881	8460560	KALENGWA AREA	53 KM SW OF KALENGWA	NW	SOLWEZI				0	134956	245606	1324
125	OHIMENA	35	271302	8458764	KALENGWA AREA	52 KM SSW OF KALENGWA	NW	SOLWEZI				0	135458	245647	1324
126	MUFUMBWE, MUFUMBWE	35	260204	8490019	KALENGWA AREA	30 KM SW OF KALENGWA	NW	SOLWEZI	107			0	133900	244700	1324
132	JKAMBO	35	317802	8507076	KALENGWA AREA	15 KM ESE OF KALENGWA	NW	KASEMPA	106	799		0	133000	251900	1325
136	MINEMBA	35	285261	8514210	KALENGWA AREA	4 KM NE OF KALENGWA	NW	KASEMPA	106			0	132519	250321	1325
182	SHINGANDA	35	298439	8444239	KALENGWA AREA	70 KM ESE OF KALENGWA, STRADDLING THE MAOMA ROAD	NW	KASEMPA	106		WESTERN	0	140400	250800	1425
212	MUFUKUSHI COPPER (ZIN)	35	660171	8446377	KAPIRI MPOSHI AREA	APPROXIMATELY 42 ROAD KM NORTH OF KABWE	C	KAPIRI MPOSHI	6			0	140300	282900	1428
218	MILLBERG	35	670996	8449984	KAPIRI MPOSHI AREA	46 KM NORTH OF KABWE (10 KM OFF RAILWAY LINE)	C	KABWE	5			0	140100	283500	1428

Appendix IV-3 (2) Duplicates for Occurrence Locality

Occ number	Occurrence name	UTMzone	UTMEast	UTMNorth	Locality	Distance	Province	District	Constituent	GSnumber	Alternative	Confidential	Lat	Long	Sheet number
122	KAMARA - LWAMAKAMBIE	35	269501	8459748	KASEMPA SALIENT	113 KM SW OF KASEMPA (SOUTH OF DONDIWE RIVER)	NW	SOLWEZI					0 135600	245200	1324
138	KANGORA-1 AND WESTER	35	303629	8471940	KASEMPA SALIENT	74 KM SW OF KASEMPA	NW	KASEMPA	106				0 134900	251100	1325
139	SHREMBWE-1 AND LOBA	35	281515	8458903	KASEMPA SALIENT	97 KM SW OF KASEMPA	NW	KASEMPA	106				0 135600	250200	1325
177	KILALAMIROMBWE - KAKA	35	264249	8442101	KASEMPA SALIENT	124 KM SW OF KASEMPA	NW	KASEMPA	106				0 140500	244900	1424
179	KAJEFU 1 TO 3 GROUP	35	296817	8422096	KASEMPA SALIENT	114 KM SW OF KASEMPA	NW	KASEMPA	106				0 141600	250700	1425
180	KAMACHOPOLO-1 AND C	35	296743	8431316	KASEMPA SALIENT	108 KM SW OF KASEMPA	NW	MUFUMBWE	107				0 141100	250700	1425
181	KARAR - KATOKA GROUP	35	305612	8447983	KASEMPA SALIENT	90 KM SW OF KASEMPA	NW	KASEMPA	106				0 140200	251200	1425
295	KARAKONDE	35	782640	8294009	LOWER ZAMBEZI NATIONAL PARK	120 KM EAST OF LUSAKA	LK	LUSAKA	78				0 152300	293900	1529
296	CHAKWENGA	35	779038	8292207	LOWER ZAMBEZI NATIONAL PARK	136 KM EAST OF LUSAKA	LK	LUSAKA	78	151			0 152600	293600	1529
297	KAINI HILL	35	771944	8297827	LOWER ZAMBEZI NATIONAL PARK	126 KM EAST OF LUSAKA	LK	LUSAKA	78	153			0 152300	293200	1529
301	MOIYA	35	775458	8292250	LOWER ZAMBEZI NATIONAL PARK	4 KM WEST OF CHAKWENGA	LK	RUFUNSA	74				0 152600	293400	1529
562	MALALI	35			LUPOMO AREA: 30KM. OF MANSA.		LP	MANSA	61				0		1029
566	CHIMBE	35			LUPOMO AREA: 30KM. OF MANSA.		LP	MANSA	61				0		1029
257	CHITENTABUNGA	35	693181	8296774	LUSAKA AREA	40 KM ESE OF LUSAKA	LK	LUSAKA	78				0 152400	284800	1528
267	LOGAFO	35	685935	8285768	LUSAKA AREA	46 KM EAST OF LUSAKA	LK	LUSAKA	78				0 153000	284400	1528
273	KASISI	35	657489	8311795	LUSAKA AREA	28 KM NE FROM LUSAKA	LK	LUSAKA	78				0 151600	282800	1528
274	MOOLA	35	617883	8268937	LUSAKA AREA	35 KM SW OF LUSAKA	LK	LUSAKA	78				0 154100	280600	1528
276	LUSAKA GOLD LINEAMEN	35	658984	8267530	LUSAKA AREA	30 KM SE OF LUSAKA	LK	LUSAKA	78				0 154000	282900	1528
277	CHUMBWE	35	696602	8278302	LUSAKA AREA	64 KM ESE OF LUSAKA	LK	LUSAKA	78				0 153400	285200	1528
280	MOQUISE (MKWIZI)	35	675177	8282164	LUSAKA AREA	38 KM EAST OF LUSAKA	LK	LUSAKA	78				0 153200	283800	1528
305	CHIBOLEKA - MUNYANUA	35	730739	8294585	LUSAKA AREA	109 KM EAST & 80 KM SE. OF LUSAKA, RESPECTIVELY	LK	LUSAKA	78				0 152500	290900	1529
255	SANJE COPPER	35	600141	8293676	LUSAKA DISTRICT	ABOUT 30 KM SW OF LUSAKA	LK	LUSAKA	78				0 152600	275600	1527
269	WHITE ROCK	35	621564	8286198	LUSAKA DISTRICT	ABOUT 30 KM SW OF LUSAKA (20 KM EAST OF SAKA HL)	LK	LUSAKA	78				0 153000	280800	1528
270	EXCELSIOR ZINC	35	625190	8295397	LUSAKA DISTRICT	ABOUT 15 TO 20 KM WEST OF LUSAKA	LK	LUSAKA	78				0 152500	281000	1528
271	STAR ZINC	35	632418	8308263	LUSAKA DISTRICT	19 KM NORTH OF LUSAKA, 1 KM WEST OF THE GREAT NORTH ROAD.	LK	LUSAKA	78				0 151547	281446	1528
285	MKWISHI	35	660770	8267518	LUSAKA DISTRICT	35 KM SE OF LUSAKA	LK	LUSAKA	78				0 154000	283000	1528
161	CHEITINA	35	748815	8489935	MKUSHI DISTRICT	25 KM WEST OF MKUSHI	C	MKUSHI NORTH	7				0 133840	290927	1329
162	MKUSHI COPPER - MUNDA	35	730466	8459060	MKUSHI DISTRICT	80 KM NE OF KABWE	C	MKUSHI NORTH	7				0 135800	290800	1329
163	MKUSHI COPPER - COLO	35	737722	8460527	MKUSHI DISTRICT	80 KM NE OF KABWE	C	MKUSHI NORTH	7				0 135500	291200	1329
165	MKUSHI COPPER - MUNSH	35	730483	8456904	MKUSHI DISTRICT	80 KM NE OF KABWE	C	MKUSHI NORTH	7		MUNSHIWE		0 135700	290800	1329
232	MKUSHI COPPER - KATUN	35	716257	8479158	MKUSHI DISTRICT	80 KM NE OF KABWE	C	MKUSHI NORTH	7				0 134500	290000	1329
281	SONDERA	35	687496	8258092	MPANDE DOIME	62 KM SE OF LUSAKA	LK	LUSAKA	78				0 154500	284500	1528
289	FUNSIWE AND KECHIVERE	35	646429	8260239	MPANDE DOIME	40 KM SSE OF LUSAKA	LK	LUSAKA	78				0 154400	282200	1528
74	KASARIA	35	626355	8525835	MUFULIRA - ML15	15 KM NW OF MUFULIRA NEAR ZAMBIE BORDER	OB	MUFULIRA	28				0 132000	281000	1328
78	NSATO	35	629000	8620000	MUFULIRA - ML15	5 KM NW OF THE MUFULIRA OREBODIES	OB	MUFULIRA	28				0 122855	281113	1228
93	MULTUNDU NORTH	35	567006	8618200	MUFULIRA - ML15	10 KM SE OF MUFULIRA	OB	MUFULIRA	28				0 123000	273700	1227
198	HIPPO	35	440000	8387400	MUMBWA AREA	80 KM NNW OF MUMBWA (95 KM BY ROAD)	C	MUMBWA	10				0 143514	262635	1426
201	MA19/40	35	512552	8358405	MUMBWA AREA	13 KM NE OF MUMBWA	C	MUMBWA	10				0 145100	270700	1427
250	DUNROBIN	35	519696	8325221	MUMBWA AREA	27 KM SE OF MUMBWA	C	MUMBWA	10				0 150900	271100	1527
292	MATALA GROUP	35	530440	8325210	MUMBWA AREA	29 KM SE OF MUMBWA	C	MUMBWA	10				0 150900	271700	1527
190	KAMIYOBO	35	492000	8370700	MUMBWA DISTRICT	25 KM NNW OF MUMBWA	C	MUMBWA	10				0 144420	265532	1426
191	LULU	35	591519	8376668	MUMBWA DISTRICT	ABOUT 50 KM NW OF MUMBWA	C	MUMBWA	10				0 144100	275100	1427
192	MA5/88	35	496414	8354721	MUMBWA DISTRICT	15 KM NW OF MUMBWA	C	MUMBWA	10				0 145300	265800	1426
193	SABLE ANTELOPE	35	489000	8382500	MUMBWA DISTRICT	40 KM NORTHWEST OF MUMBWA	C	MUMBWA	10				0 143756	265352	1426
220	MWOMBOSHI RIVER	35	690179	8368721	MWOMBOSHI AREA	80 KM NE OF LUSAKA	LK	LUSAKA	78				0 144500	284600	1428
221	IRON CAP	35	706394	8377839	MWOMBOSHI AREA	SE OF KABWE, NEAR THE MULUNGUISHI DM	C	KABWE	5				0 144051	285201	1428
226	LITETA	35	613012	8367360	MWOMBOSHI AREA	73 KM NNW OF LUSAKA	LK	LUSAKA	78				0 144400	280600	1428

Appendix IV-3 (2) Duplicates for Occurrence Locality

Occ number	Occurrence name	UTMzone	UTMEast	UTMNorth	Locality	Distance	Province	District	Constituent	GSnumber	Alternative	Confidential	Lat	Long	Sheet number
205	KAPAMBALELA - MUCHIN	35	680011	8451776	MWOMBOSHI GROUP	50 KM NORTH OF LUSAKA	C	KABWE	5				0 136000	284000	1328
219	MANTAYA AND CHAMPAN	35	681137	8359570	MWOMBOSHI GROUP	75 KM NE OF LUSAKA	LK	LUSAKA	78				0 145000	284100	1428
223	KAMANO	35	659575	8354191	MWOMBOSHI GROUP	80 KM NE OF LUSAKA	LK	LUSAKA	78				0 145300	282900	1428
225	KAPUTA	35	657672	8337609	MWOMBOSHI GROUP	50 KM NE OF LUSAKA	LK	LUSAKA	78				0 150200	282800	1528
2350	DABWISA 3	35	623125	8549461	NDOLA RURAL EMERALD DISTRICT	4 KM W OF KAFUE RIVER	OB	NDOLA	36				0 130705	280758	1328
2351	TWAMPANE	35	618873	8551773	NDOLA RURAL EMERALD DISTRICT	NEAR PIRALA RIVER	OB	NDOLA	36				0 130600	280650	1328
2352	GEM OF AFRICA	35	617483	8550612	NDOLA RURAL EMERALD DISTRICT	1 KM E OF KAMAKANGA	OB	NDOLA	36				0 130612	280500	1328
2346	RAMA	35	620263	8551187	NDOLA RURAL EMERALD DISTRICT	NEAR KAFUBU	OB	NDOLA	36				0 130610	280632	1328
2347	MASOMBWE	35	621215	8550455	NDOLA RURAL EMERALD DISTRICT	2 KM SW OF KAGEM	OB	NDOLA	36				0 130645	280705	1328
2339	ARENAS	35	621958	8551828	NDOLA RURAL EMERALD DISTRICT	ACROSS KAFUBU RIVER FROM KAGEM	OB	NDOLA	36				0 130620	280730	1328
2340	KWASHA MUKWENU	35	615059	8549252	NDOLA RURAL EMERALD DISTRICT	2 KM SW OF KAMAKANGA	OB	NDOLA	36				0 130720	280340	1328
2341	LUMPUMA	35	619573	8551333	NDOLA RURAL EMERALD DISTRICT	2.5 KM E OF KAMAKANGA	OB	NDOLA	36				0 130628	280610	1328
2348	DABWISA 2	35	622733	8549562	NDOLA RURAL EMERALD DISTRICT	4 KM W OF KAFUE RIVER	OB	NDOLA	36				0 130710	280800	1328
2353	F10	35	623575	8553175	NDOLA RURAL EMERALD DISTRICT	4 KM W OF KAFUE RIVER	OB	NDOLA	36				0 130450	280825	1328
2355	FBOLELE	35	624392	8556222	NDOLA RURAL EMERALD DISTRICT	5 KM N OF KAFUBU RIVER	OB	NDOLA	36				0 130630	280650	1328
2337	G21	35	619297	8551385	NDOLA RURAL EMERALD DISTRICT	0.5 KM EAST OF PICALA RIVER	OB	NDOLA	36				0 130610	280600	1328
2338	CHIMPUNDU	35	620072	8551314	NDOLA RURAL EMERALD DISTRICT	1 KM EAST OF PICALA RIVER	OB	NDOLA	36				0 130610	280630	1328
2342	HIWA	35	620568	8551199	NDOLA RURAL EMERALD DISTRICT	7 KM W OF KAFUE RIVER	OB	NDOLA	36				0 130620	280640	1328
2344	CHIBOLELE (NDOLA)	35	620942	8551318	NDOLA RURAL EMERALD DISTRICT	7 KM W OF KAFUE RIVER	OB	NDOLA	36				0 130610	280700	1328
2354	DABWISA	35	624512	8554639	NDOLA RURAL EMERALD DISTRICT	3 KM N OF KAFUBU RIVER	OB	NDOLA	36				0 130540	280900	1328
2334	KAFUBU	35	619964	8550931	NDOLA RURAL EMERALD DISTRICT	9 KM W OF KAFUE RIVER	OB	NDOLA	36				0 130629	280620	1328
2343	MBUVA	35	621747	8551867	NDOLA RURAL EMERALD DISTRICT	ADJACENT TO ARENAS	OB	NDOLA	36				0 130600	280725	1328
2345	AKALA	35	620325	8551223	NDOLA RURAL EMERALD DISTRICT	1 KM SW OF ARENAS	OB	NDOLA	36				0 130610	280630	1328
2333	KAMAKANGA	35	616700	8550718	NDOLA RURAL EMERALD DISTRICT	10KM W OF KAFUE RIVER	OB	NDOLA	36				0 130631	280432	1328
2356	KAZA	35	619714	8555205	NDOLA RURAL EMERALD DISTRICT		OB	NDOLA	36				0 130405	280615	1328
2357	MIKU	35	619804	8555174	NDOLA RURAL EMERALD DISTRICT		OB	NDOLA	36				0 130406	280618	1328
1601	SARAPANGO	36	206300	8314680	NEAR KATONDWE		LK	LUSAKA	78				0 151343	301558	1530
1605	KOLIMANGAMBE	36	0	0	NEAR KATONDWE		LK	LUSAKA	78				0	1530	1530
2638	SIZYONGO	35	510650	8096100	NEAR MASUKU MISSION		S	CHOMA	115				0 171317	270601	1727
2639	SYAPUBWE	35	514499	8094060	NEAR MASUKU MISSION		S	CHOMA	115				0 171424	270811	1727
2640	KALOBELA -KASESA	35	516113	8098155	NEAR MASUKU MISSION		S	CHOMA	115				0 171210	270906	1727
2641	BUNDE HILL	35	515136	8102121	NEAR MASUKU MISSION		S	CHOMA	115				0 171001	270832	1727
2642	NAMANZA	35	514957	8102336	NEAR MASUKU MISSION		S	CHOMA	115				0 170954	270826	1727
2643	MUNZUMA	35	523777	8106547	NEAR MASUKU MISSION		S	CHOMA	115				0 170737	271325	1727
60	FIMPIPA DYKE	35	606504	8527764	NORTHERN COPPERBELT, IN NCHANGA ML10	IN WANE OF CHINGOLA, AREA 4 KM EAST OF BOUNDARY, O	OB	CHINGOLA	16				0 131900	275900	1327
63	CHIWEMPALA	35	585122	8619986	NORTHERN COPPERBELT, IN NCHANGA ML10	ABOUT 3 KM SOUTH OF NCHANGA	OB	CHINGOLA	16				0 122900	274700	1227
483	LUANO 6	35	762700	8342500	NR. 5TH SCARP OF LUANO VALLEY, EAST OF JESSIE MINE.		C	MKUSHI NORTH	7				0 145851	292633	1429
488	LUANO VALLEY 1	35	765810	8342100	NR. 5TH SCARP OF LUANO VALLEY, EAST OF JESSIE MINE		C	MKUSHI SOUTH	8				0 145903	292818	1429
485	LUANO VALLEY 3	35	765950	8342300	NR. 5TH SCARP OF LUANO VALLEY, EST OF JESSIE MINE.		C	MKUSHI SOUTH	8				0 145856	292822	1429
486	LUANO VALLEY 4	35	765780	8341900	NR. 5TH SCARP OF LUANO VALLEY, EST OF JESSIE MINE		C	MKUSHI SOUTH	8				0 145909	292817	1429
2554	CHIKUPILI	35	742805	8442280	OLD MKUSHI		C	MKUSHI NORTH	7				0 140452	291455	1429
2569	OLD MKUSHI AREA	35	779407	8395224	OLD MKUSHI		C	MKUSHI	7				0 143010	293592	1429
2572	MUSHIBEMBA	35	769331	8490778	OLD MKUSHI		C	MKUSHI	7				0 133826	292922	1329
2574	CHIKUPILI	35	408816	8448437	OLD MKUSHI		C	MKUSHI	7				0 140204	260920	1426
2579	KABOLOWE	35	753283	8402002	OLD MKUSHI		C	MKUSHI	7				0 142639	292058	1429
2371	SHALOM MINE	36	510161	8627103	P5		E	LUNDAZI	50				0 122513	330637	1233
2372	FERNANDO YAWEZI MINE	36	509818	8629927	P5		E	LUNDAZI	50				0 122341	330625	1233
173	MAKALI KAPOKA, MUNKW	36	312679	8466475	PETAUKE DISTRICT	55 KM NW OF PETAUKE	E	PETAUKE	55				0 135200	311600	1331
174	SASARE	36	324615	8461356	PETAUKE DISTRICT	38 KM NORTH OF PETAUKE	E	PETAUKE	55				0 135449	312236	1331

Appendix IV-3 (2) Duplicates for Occurrence Locality

Occ number	Occurrence name	UTMzone	UTMEast	UTMNorth	Locality	Distance	Province	District	Constituents	GNumber	Alternative	Confidential	Lat	Long	Sheet number
291	MVULA AND RUFUNSA CC	35	720178	8313133	RUFUNSA AREA	MVULA IS 8 KM NW OF JUNCTION OF KAFUE RIVER AND K	LK	LUSAKA	78				0 151500	290300	1529
292	KAFURASHISHI EAST	35	800636	8301164	RUFUNSA AREA	33 KM SSE OF RUFUNSA	LK	RUFUNSA	74				0 152100	294800	1529
300	KAFURASHISHI	35	797078	8303055	RUFUNSA AREA	28 KM SSE OF RUFUNSA	LK	RUFUNSA	74				0 152000	294800	1529
302	MISANGOMBE	35	752173	8290671	RUFUNSA AREA	100 KM EAST OF LUSAKA AND 37 KM SOUTH ON A BISHI TRACK	LK	LUSAKA	78				0 152700	292100	1529
306	KIYANDA GROUP	35	798800	8321500	RUFUNSA AREA	17 KM SE OF RUFUNSA	LK	LUSAKA	78	130A			0 151000	294650	1529
167	M'SOMANI	36	247071	8543388	SERENJE AREA	19 KM SE OF KANONA	C	SERENJE	14	51			0 131000	304000	1330
168	SERENJE	36	201978	8537066	SERENJE AREA	NEAR SERENJE VILLAGE AND UP TO 50 KM TO THE SOUTH	C	SERENJE	14				0 131500	301500	1330
43	KIMALE WEST	35	433590	8649800	SOLWEZI AREA	9 KM SE OF SOLWEZI	NW	SOLWEZI WEST	112	514			0 121251	262322	1226A2
44	MINSEBA	35	441943	8671665	SOLWEZI AREA	19 KM NNE OF SOLWEZI	NW	SOLWEZI EAST	111		CHIFUBWA		0 120100	262800	1226
45	MITU	35	429300	8647679	SOLWEZI AREA	7 KM SW OF SOLWEZI	NW	SOLWEZI WEST	112		KATANDA		0 121343	262122	1226
46	SHKILA	35	418357	8671610	SOLWEZI AREA	25 KM NW OF SOLWEZI	NW	SOLWEZI WEST	112		MITUKULLU		0 120026	261321	1226
47	KANSANSHI	35	438334	8662443	SOLWEZI AREA	10 KM NORTH OF SOLWEZI	NW	SOLWEZI EAST	111				0 120548	262559	1226
48	CHIFUBWA	35	435400	8649100	SOLWEZI AREA	3 KM SOUTH OF SOLWEZI	NW	SOLWEZI EAST	111				0 121314	262422	1226
146	LUMPUMA	35	619215	8544301	SOUTH AND SW OF LUANSHYA NEAR THE KARIBU EMERALD AREA	MWELUSHI - 48 KM WEST, MITONDO - 35 KM WEST, AND L	OB	NDOLA	36		LUMPUMA		0 130628	280610	1328
147	MWELUSHI	35	604798	8553576	SOUTH AND SW OF LUANSHYA NEAR THE KARIBU EMERALD AREA	MWELUSHI - 48 KM WEST, MITONDO - 35 KM WEST, AND L	OB	NDOLA	36		LUMPUMA		0 130500	275800	1327
148	MITONDO	35	617416	8546152	SOUTH AND SW OF LUANSHYA NEAR THE KARIBU EMERALD AREA	MWELUSHI - 48 KM WEST, MITONDO - 35 KM WEST, AND L	OB	NDOLA	36		LUMPUMA		0 130900	280500	1328
149	LUMPUMA EAST	35	633621	8535017	SOUTH AND SW OF LUANSHYA NEAR THE KARIBU EMERALD AREA	MWELUSHI - 48 KM WEST, MITONDO - 35 KM WEST, AND L	OB	NDOLA	36		LUMPUMA		0 131500	281400	1328
82	MWEKERA	35	662812	8584634	SOUTHEASTERN COPPERBELT	40 KM SE OF MUFUBWA AND 28 KM NW OF NDOLA, NEAR T	OB	KALULUSHI	18				0 124800	283000	1228
83	NDOLA EAST	35	677000	8574000	SOUTHEASTERN COPPERBELT	8 KM NORTH OF NDOLA, 33 KM NE OF LUANSHYA, AND 55	OB	NDOLA	36				0 125343	283753	1228
84	NDOLA WEST	35	680811	8569774	SOUTHEASTERN COPPERBELT	3 KM WEST OF NDOLA TOWN, 28 KM NE OF LUANSHYA, 60	OB	NDOLA	36				0 125600	284000	1228
152	NDOLA 5 KM SOUTH	35	686199	8564207	SOUTHEASTERN COPPERBELT	5 KM SOUTH OF NDOLA, 25 KM NE OF LUANSHYA, 65 KM S	OB	NDOLA	36				0 125900	284300	1228
2453	IBK15	36	471800	8858800	SW OF ISOKA		N	ISOKA	86				0 101928	324433	1032
2454	IBK13	36	477700	8863300	SW OF ISOKA		N	ISOKA	86				0 101702	324747	1032
2455	IBK14	36	450500	8877400	SW OF ISOKA		N	ISOKA	86				0 100922	323253	1032
318	MULOBEZI	35	307953	8165835	SW OF KAFUE NATIONAL PARK	THE FL SURROUNDS AND EXTENDS NE OF THE VILLAGE	W	MULOBEZI	148				0 163500	251200	1625
319	NAMINDA	35	259819	8174574	SW OF KAFUE NATIONAL PARK	THE SW BOUNDARY IS 40 KM NW OF MULOBEZI	W	MULOBEZI	148				0 163000	244500	1624
1051	OLD MINE	36	0	0	WEST OF LUNDAZI		E	LUNDANZI	50				0	1232	1232
1052	HONEY BIRD	35	0	0	WEST OF LUNDAZI		E	LUNDAZI	50		HONEY		0	1232	1232
1986	INPUT ANOM 16	35	0	0	WITHIN KING EDWARD AREA, P.L. 35		LK	LUSAKA	78				0	1528	1528
2070	INPUT ANOM 46	35	0	0	WITHIN KING EDWARD AREA, P.L. 35		LK	LUSAKA	78				0	1527	1527
1157	BLOCK N	35	0	0	WITHIN LUMPUMA P.L. 33		OB						0	1327	1327
1226	BLOCK S	35	0	0	WITHIN LUMPUMA P.L. 33								0	1328	1328
1275	BLOCK V	35	0	0	WITHIN LUMPUMA P.L. 33		C						0	1328	1328
1985	INPUT ANOM 14B	35	0	0	WITHIN THE KING EDWARD AREA, P.L. 35		LK	LUSAKA	78				0	1528	1528
2074	SE 1	35	0	0	WITHIN THE KING EDWARD AREA, P.L. 35						KING EDD		0	1527	1527

Appendix IV-3 (3.1) Need reexamination (from Comments) No detail information

Occurrence name	UTMZone	UTMEast	UTMNorth	Comments	Locality	Province	District
484 CHINSALI	35	732400	8351940	NO COMMENT.	14 KM EAST OF CHINSALI IN THE MAFANATA	C	MUKISHI SOUTH
533 BUNDU	35	747900	8739400	NO DETAILS ON THE MINERALIZATION WERE GIVEN. THE LOCATION IS MARKED ON A MAP. THE FILE MAINLY CONTAINS MONTHLY RETURNS OF MINERAL PRODUCTION FORMS.	48 KM E.S.E OF MANSA	LP	MANSA
873 KUMALE MO 808	35	443600	8648200	NO DETAILS	10 KM SE OF SOLWEZI	NW	SOLWEZI
958 NKAMA NORTH LIMB	35	622000	8594000	NO DETAILS	10 KM SE OF CHAMBISE O.P.	CB	KALULUSHI
1220 KAPOKA REEF	36	305800	8465820	A BLOCK OF 10 CLAIMS FOR GOLD WERE IN 1912 BUT APPARENTLY NEVER WORKED. NO OTHER INFORMATION AVAILABLE.	65 KM E OF KASEMPA	NW	PETAUKE
1302 KERONGWE	35	440900	8513600	NO INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1545 NGANDU HILL	35	352700	8071500	AN OLD SPECIAL GRANT FOR TALC. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1545 MULENDI	35	591400	8174600	ACCORDING TO MOLYBDENE COAL ALSO OCCURRED AT THIS LOCALITY A SHORT DISTANCE UPSTREAM FROM KATONDA. NO OTHER INFORMATION WAS AVAILABLE (1949).	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1841 SEDDON	35	698500	8280600	A MINING LOCATION WAS PEGGED FOR COPPER BY FEDRAGE AND APPARENTLY TRANSFERRED TO CORNISH AND HORDEN IN 1955. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1955 JOKER	35	714400	8322200	A MINING TITLES FOR KYANITE WAS PEGGED HERE BY F.H.S. DRAKE. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2126 BROOKLYN	35	709900	8351200	A SPECIAL GRANT KNOWN AS MOCHINDA NITRATES WAS REGISTERED AT THIS LOCALITY. NO FURTHER INFORMATION.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2148 LUKALI NO.3	35	650100	8389000	TWO BASE METAL LOCATIONS WERE PEGGED HERE OF MAGNETITE ? BY JAMES MITCHELL IN 1924. NO FURTHER INFORMATION.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2172 PALAMATTA	35	650100	8427900	NO DETAIL	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2595 INTERCONTO MINE	35	663000	8347300	TWO BASE METAL LOCATIONS FOR ASBESTOS PEGGED AS CHLOMBA I AND 2 (MT'S 328-327). ASBESTOS LOCATIONS BY T.T. CAMPBELL. NO OTHER INFORMATION AVAILABLE. NO RECORD OF ANY PRODUCTION	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
3095 MWELUSHI	35	486120	8033190	FORMERLY WORKED BY LUAPULA HOLDINGS. IT IS WORKED BY ILLEGAL MINERS.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1104 MANYINGA U	35	606800	8529800	NO FURTHER INFORMATION. PL 212 MWELUSHI WAS HELD BY CHANTETE MINING CO-OP SOC FOR 1 YEAR. SITE IS MARKED WITH EM? NO DETAILS GIVEN	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1191 CHIKWENIA	36			A PROSPECTING LICENSE (PL 144 CHIKWENIA) WAS PEGGED IN THIS AREA IN 1910. PROBABLY BY NORTH CHARTER AND EXPLORATION COMPANY BUT WAS NEVER WORKED FOR GOLD. NO OTHER INFORMATION AVAILABLE	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1194 ULOLA REEF	36			A BLOCK OF 10 CLAIMS FOR GOLD WERE PEGGED HERE IN 1912 BUT APPARENTLY NEVER WORKED. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1199 KALASSIA REEF	36			2 BLOCKS 10 CLAIMS FOR GOLD WERE PEGGED HERE IN 1912. BUT APPARENTLY NEVER WORKED. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1200 NDOMBIE	36			A BLOCK OF TEN CLAIMS FOR GOLD WAS PEGGED HERE IN 1912. BUT APPARENTLY NEVER WORKED. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1218 MALLANGO	36			A GROUP OF PRECIOUS METAL LOCATIONS WERE PEGGED FOR GOLD IN THIS AREA IN 1912. BUT WERE APPARENTLY NEVER WORKED. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1219 CHUWAIE REEF	36			A BLOCK OF 10 CLAIMS FOR GOLD WERE IN 1912 BUT APPARENTLY NEVER WORKED. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1480 KANKURI	35			THREE CLAIMS WERE PEGGED FOR TIN - KANKURI I, II AND III. NO GEOLOGICAL INFORMATION GIVEN.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1484 BUYU	35			THREE CLAIMS WERE PEGGED FOR TIN (BUYU I, II AND III). WERE PEGGED.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1529 JAMBO	35			A BASE METAL LOCATION FOR MICA PEGGED IN 1925.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1534 THE NORTHERN	35			A BASE METAL LOCATION FOR MICA	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1537 ANDRIES BULT	35			A BASE METAL LOCATION FOR COPPER. NO FURTHER INFORMATION	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1538 INJOLA	35			A PRECIOUS METAL LOCATION FOR GOLD PEGGED BY A. HARTZEN BERG. NO FURTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1573 WINNIE	35			A BASE METAL LOCATION (BM8) WAS PEGGED BY A. ORR IN 1916 FOR IRON-MANGANESE ORE IN 1916. NO FURTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1646 ANGHORS WEIGHED	35			FOUR BLOCKS OF BASE METAL LOCATIONS (BM 4-7) WERE REGISTERED FOR TIN IN THIS AREA BY J. ROBINSON. NO OTHER INFORMATION.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1897 LEVIATHAN	35			FIVE BLOCKS OF BASE METAL LOCATIONS FOR COPPER WERE REGISTERED IN THIS AREA. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1920 HOMEWARD BOUND	35			A SINGLE BLOCK OF BASE METAL CLAIMS FOR COPPER PEGGED IN THIS AREA. NO OTHER INFORMATION.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
1933 WEINAND COPPER	35			A BASE METAL LOCATION WAS PEGGED FOR COPPER IN 1927. NO OTHER INFORMATION	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2041 KALAYA MICA	35			CLAIMS PEGGED MANY YEARS AGO. NO OTHER INFORMATION	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2108 IRON DUKE	0			AN OLD BASE METAL LOCATION PEGGED FOR IRON. NO FURTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2146 GHPEPO	0			THREE BLOCKS OF BASE METAL LOCATIONS FOR COPPER WERE REGISTERED IN 1925. NO OTHER INFORMATION.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2147 KANKOMBWA COPPER	0			FOUR BLOCKS OF BASE METAL LOCATIONS FOR COPPER PEGGED BY G. OLIVIER. NO OTHER INFORMATION.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2151 KATU	0			A BLOCK OF BASE METAL LOCATION FOR COPPER WAS REGISTERED BY W.H. DAVEY IN 1925. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2156 CHAPULA	0			A SPECIAL GRANT FOR LIMESTONE WAS LOGATED IN THIS AREA. NO FURTHER INFORMATION	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2162 MWOMBOSHI LEAD	0			A BLOCK OF BASE METAL LOCATIONS FOR GALENA PEGGED BY MC LAREN. DEC 1922. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2228 KAMFUPA	0			AN OLD BASE METAL LOCATION PEGGED BY J. MERRY FOR RCBG CO.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2229 KALUNGA	0			AN OLD BASE METAL LOCATION PEGGED BY J. MERRY FOR RCBG CO.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2233 FINSA	0			PROBABLY A MINING TITLE FOR GOLD PEGGED OVER A SIMILAR VEIN TO THAT AT KASONSO. NO OTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2234 ANTRIM	0			A GROUP OF OLD MT. FOR AU WHICH PROBABLY COVER PARTS OF THE MAPAMATAPA (BIG GOSSAN) OCCURRENCE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2235 ELLMER	0			7 CLAIMS FOR COPPER PEGGED IN THIS AREA IN 1955. NO FURTHER INFORMATION.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2253 CHIKUSU	0			20 CLAIMS FOR LEAD WERE PEGGED IN A NE-SW LINE IN 1955 BY W.J. CURTIS. NO FURTHER INFORMATION AVAILABLE.	ADULT 100 KM NE OF CHOMAS	S	KASEMPA
2254 KABUL	0				ADULT 100 KM NE OF CHOMAS	S	KASEMPA

Appendix IV-3 (3.2) Need reexamination (from Comments) Same Comments

Occurrence name	UTMZone	UTMEast	UTMNorth	Comments
1852 KALA MABWE	35			A GROUP OF QUARTZ VEINS CARRYING ONLY MINOR AMOUNTS OF COPPER AND GOLD. PROBABLY RELATED TO THE CAIRN DHU AND DARG GROUP (MO253). FURTHER W.
2657 KALA MABWE	35			A GROUP OF QUARTZ VEINS CARRYING ONLY MINOR AMOUNTS OF COPPER AND GOLD. PROBABLY RELATED TO THE CAIRN DHU AND DARG GROUP (MO253). FURTHER W.
774 HIPPO	36	503500	8695900	A LOCATION MAP IS INCLUDED IN THE FILE; ALSO MONTHLY RETURNS OF MINERAL PRODUCTION FORMS, AND SOME LETTERS.
775 HOPE	36	503200	8696200	A LOCATION MAP IS INCLUDED IN THE FILE; ALSO MONTHLY RETURNS OF MINERAL PRODUCTION FORMS, AND SOME LETTERS.
776 PRESTO	36	502200	8695300	A LOCATION MAP IS INCLUDED IN THE FILE; ALSO MONTHLY RETURNS OF MINERAL PRODUCTION FORMS, AND SOME LETTERS.
777 PRIDE	36	505300	8694800	A LOCATION MAP IS INCLUDED IN THE FILE; ALSO MONTHLY RETURNS OF MINERAL PRODUCTION FORMS, AND SOME LETTERS.
778 REMNANT	36	508200	8696600	A LOCATION MAP IS INCLUDED IN THE FILE; ALSO MONTHLY RETURNS OF MINERAL PRODUCTION FORMS, AND SOME LETTERS.
779 WONDER	36	506700	8692900	A LOCATION MAP IS INCLUDED IN THE FILE; ALSO MONTHLY RETURNS OF MINERAL PRODUCTION FORMS, AND SOME LETTERS.
3184 MUTANGA	35	659300	8194350	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3185 DIMBE	35	657000	8175700	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3186 BUNGLIA SIYONGA	35	657000	8175700	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3187 KAMPWE D & C	35	660000	8176600	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3188 CHISEBUKA	35	602000	8159000	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3189 LUTELE-CHIZWABOWA E	35	660150	8178400	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3190 SIAMBOKA	35	678000	8225000	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3191 NJAME	35	661500	8221000	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3192 NAWAKANDE	35	602000	8169000	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
3193 MUNYUMBWE	35	584000	8161000	IN GENERAL URANIUM MINERALISATION OCCURS IN THE ESCARPMENT GRIT AND IT IS CONTROLLED BY POROSITY, PERMEABILITY, CROSSBEDS, CHANNELLING, IRON CEMENTING, MI
2596 BLONGO MINE	35	488090	8033545	RE-OPENED BY ILLEGAL MINERS.
2597 STAR MINE	35	487920	8033736	RE-OPENED BY ILLEGAL MINERS.
2608 KANKULE 4	35	487266	8035464	RE-OPENED BY ILLEGAL MINERS.
2618 FOREMAN MINE	35	487092	8034454	RE-OPENED BY ILLEGAL MINERS.
2619 BWENGWA	35	486731	8034656	RE-OPENED BY ILLEGAL MINERS.
340 KARIBA	35	679356	8185400	THE FILE CONTAINS A LOCATION MAP, AND A PLAN OF THREE BLOCKS PEGGED UNDER EXCLUSIVE PROSPECTING LICENCE 325/1123. AMETHYST OCCUR IN VEINS AND CAVITIES AL
343 FAITH BERYL	36	198500	8347400	THE FILE CONTAINS ONLY A SKETCH PLAN TO SHOW THE APPROXIMATE MINING LOCATION.
428 ZAMBESI VALLEY	35	632000	8176000	THE FILE CONTAINS MAPS SHOWING WHERE GYPSUM HAS BEEN SEEN OR FOUND, AND THE AREAS PROSPECTED FOR GYPSUM NEAR THE KARIBA GORGE. THE GYPSUM OCCURS IN
541 BUNDA 1	35	747900	8739400	THE FILE CONTAINS LEGAL DOCUMENTS, AND LOCATION MAPS OF THE MANGANESE OCCURRENCE IN THE MANS AREA, FROM FILE MRO 1128 MBALA MANGANESE. THE TOTAL PR
569 FORT ROSEBERY (MANS	35	707910	8761400	THE FILE CONTAINS LOCATION MAPS AND LEGAL DOCUMENTS FOR MANGANESE MINERAL OCCURRENCE IN THE FORT ROSEBERY AREA. (INDIVIDUAL OCCURRENCES ON SEPARATE
591 MITWELE	35	652000	8727000	THE FILE CONTAINS THE DISCOVERY REPORT AND MAPS OF THE MITWELE COPPER AND LEAD OCCURRENCE. GALENA, BORNITE AND CHALCOPYRITE OCCUR WITHIN THE DOLOMITE
599 LUCHINSA	35	654000	8731600	THE FILE CONTAINS THE DISCOVERY REPORT AND MAPS OF THE OCCURRENCE. COPPER OCCURS AS DISSEMINATIONS IN SHALE.
693 KAYAMBI	36	390200	8954200	THE FILE CONTAINS A MAP SHOWING THE LOCATION OF KAYIMBI COPPER MINE.
754 CHIPAPASU	36	347200	8678500	THE FILE CONTAINS ONLY A SKETCH PLAN TO SHOW WHERE THE MICA REEF BLOCK WAS PEGGED.
755 KUMPERTZEN	36	498000	8721000	THE FILE CONTAINS LOCATION MAPS AND MONTHLY RETURN OF MINERAL PRODUCTION FORMS.
989 TORRS MINE	36	420160	8632900	THE FILE CONTAINS A MAP TO SHOW THE LOCATION OF THE MINE. NO INFORMATION ON THE NATURE OF THE TITANIUM OCCURRENCE IS GIVEN (MT 2056)ALSO A REFERENCE TO I
1000 CHINKUMBA	36	420340	8825300	THE FILE CONTAINS A SKETCH PLAN SHOWING THE MINING LOCATION. OCCURRENCE CONTAINS RESIN.
1073 BALOVALE LIMESTONE	34	719000	8538500	THE FILE MAINLY CONTAINS CORRESPONDENCE BETWEEN FATHER AQUINAS OF THE CATHOLIC MISSION AT BALOVALE, MR. AUSTEN (RESIDENT MINING ENGINEER), AND THE GEOLG
1171 KAPARA MICA	36	412000	8531000	THE FILE CONTAINS A SKETCH PLAN SHOWING THE MINING LOCATION AND SOME RETURN OF MINERAL PRODUCTION FORMS SMALL PRODUCTION OF MICA DURING 1951, 1952 SENT
1234 BWANA MKUBWA	35	683300	8559400	THE FILE CONTAINS ONLY MONTHLY RETURN OF MINERAL PRODUCTION FORMS FOR SILICA FROM BWANA MKUBWA FOR PART OF 1949-50.
1253 KATANINO	35	679000	8498000	THE FILE CONTAINS ONLY A PLAN (NO SCALE) SHOWING THE POSITION OF THE CLAIM.
1265 NIL DESPERANDUM	35	599550	8455700	THE FILE CONTAINS ONLY LOCATION MAPS ACCORDING TO GUERNSEY (1952) THE PROSPECT SHOWS ONLY LOW-GRADE MINERALISATION IN QUARTZITES.
1268 EUREKA	35	599550	8455700	THE FILE CONTAINS ONLY LOCATION MAPS OF THE CLAIMS, ACCORDING TO GUERNSEY (1952) THE PROSPECT SHOWS ONLY LOW-GRADE MINERALISATION IN QUARTZITES.
1269 KANTOLO	35	659400	8496700	THE FILE CONTAINS ONLY REGISTRATION CERTIFICATES AND LOCATION MAPS.
1270 IRONCLAD	35	614600	8456500	THE FILE CONTAINS ONLY A PLAN (NO SCALE) SHOWING THE LOCATION OF THE CLAIM. SECOND CARD RECORDS THAT THE CLAIMS WERE ON AN EXPOSURE OF PYRITE
1699 MASUKU MICA	35	513680	8097630	THE FILE CONTAINS SKETCH MAPS SHOWING THE LOCATION OF THE MICA CLAIM ONLY. (MASUKU 2 8097483. 513154) REPORT BY FAUSTIN NZABARA 2000
335 CHOLWE	35			THE FILE CONTAINS SKETCH PLANS OF THE CLAIM AND MAPS TO SHOW LOCATION OF THE MICA DEPOSITS.
344 LONG TOM	35			THE FILE CONTAINS A LOCATION MAP AND SOME MONTHLY RETURN OF MINERAL PRODUCTION FORMS.
346 NORTHERN STAR MINE	35			THE FILE CONTAINS A LOCATION MAP AND SOME MONTHLY RETURN OF MINERAL PRODUCTION FORMS.
347 WHITE ROCK MICA MINE	35			THE FILE CONTAINS A LOCATION MAP TO SHOW THE POSITION OF THE KAVIRA (KAVIRI) COPPER OCCURRENCE. CARD GIVES LOCATION ON SHEET 1028SE BUT NOT FOUND ON MAPS.
525 KAVIRA	35			THE FILE CONTAINS TWO MAPS, TO SHOW THE POSITION OF THE MWENSI (MWENSA) COPPER.
532 MWENSI	35			THE FILE CONTAINS LEGAL DOCUMENTS, AND MAPS TO SHOW THE LOCATIONS OF CLAIMS PEGGED BY THE RHODESIAN VANADIUM COOPERATION. DETAILS OF LOCATION WITH TH
567 MWEWE CONCESSION	35			THE FILE CONTAINS DETAILS OF MANGANESE OCCURRENCES IN THE LUPUMO AREA, OR MALALI, MULUBA, CHIMBE, YOTAMU AND KATITI; (THE FIRST THREE ARE ON SEPARATE CAR
568 LUPUMO	35			THE FILE CONTAINS ONLY A SKETCH MAP SHOWING THE POSITION OF THE WALKER PLATINUM MINE. THIS RECORD IS DOUBTFUL
750 WALKER	35			THE FILE CONTAINS ONLY A SKETCH MAP SHOWING THE POSITION OF THE WALKER PLATINUM MINE. THIS RECORD IS DOUBTFUL
1223 KADOLA	35			THE FILE CONTAINS REGISTRATION CERTIFICATES AND LOCATION MAPS FOR THE EIGHT LOCATIONS COMPRISING KADOLA COPPER MINES.
1228 CORNSTALK	35			THE FILE CONTAINS ONLY A PLAN SHOWING THE LOCATION OF THE CLAIM.
1229 MILULU	35			THE FILE CONTAINS ONLY A LOCATION MAP FOR FOUR BASE METAL CLAIMS (URANIUM).
1232 KAUUDI	35			THE FILE CONTAINS ONLY A PLAN (NO SCALE) SHOWING THE LOCATION OF THE KAUUDI CLAIMS (THIRTY).
1233 BELLA IRON CLAIM	35			THE FILE CONTAINS ONLY A PLAN (NO ACCURATE SCALE) SHOWING THE LOCATION OF THE CLAIM.

Appendix IV-3 (3.2) Need reexamination (from Comments) Same Comments

Occurrence name	UTMZone	UTMEast	UTMNorth	Comments
1235 WALAMBA	35			THE FILE CONTAINS ONLY A LOCATION MAP OF THE WOLFRAMITE CLAIM.
1248 KOLOKO	35			THE FILE CONTAINS ONLY A PLAN SHOWING THE LOCATION.
1254 LUWE	35			THE FILE CONTAINS ONLY A PLAN SHOWING THE LOCATION.
1255 MKANKULA	35			THE FILE CONTAINS ONLY A PLAN (NO SCALE) SHOWING THE POSITION OF THE CLAIM.
1256 KAFUNGA FUNGA	35			THE FILE CONTAINS ONLY A PLAN (NO SCALE) SHOWING THE POSITION OF THE CLAIM.
1264 CHWALLA	35			THE FILE CONTAINS ONLY A PLAN OF THE CLAIM'S LOCATION (1913).
1266 WINNI IRON	35			THE FILE CONTAINS TWO MAPS ONLY, SHOWING THE LOCATION OF THE CLAIM.
1267 JIMPIRA	35			THE FILE CONTAINS ONLY TWO LOCATION MAPS.
1271 CHONDWE IRON	35			THE FILE CONTAINS ONLY A PLAN (NO SCALE), SHOWING THE LOCATION OF THE CLAIM.
1293 REGINA REEF	35			THE FILE SHOWS ONLY THE LOCATION AND SIZE OF THE REEF.
1294 SHINGONGA REEF	35			THE FILE SHOWS ONLY THE LOCATION AND SIZE OF THE REEF.
1295 STAR OF INGWE	35			THE FILE ONLY SHOWS THE LOCATION OF THE CLAIM.
1296 SURPRISE (NOS. 1&2)	35			THE FILE ONLY SHOWS THE LOCATION OF THE CLAIMS.
1298 LUSINGGASHI	35			THE FILE GIVES ONLY THE LOCATION AND SIZE OF THE BLOCK.
1303 BONSOR (NOS. 1-5)	35			THE FILE ONLY SHOWS THE LOCATION OF THE CLAIM.
1304 IPHIGENIA	35			THE FILES ONLY SHOWS THE LOCATION OF THE CLAIM.
1359 KAMBWE GOLD	35			THE FILE SHOWS THE LOCATION OF THE FOLLOWING CLAIMS:- LUSINGASHISHINGONGA, REGINA, MAJOR, SURREY, SURPRISE, IPHIGENIA, STAR OF INGWE, AND BONSOR. NO DETAIL.
1591 LUANGWA BERYL	36			THE FILE CONTAINS ONLY A SKETCH PLAN TO SHOW THE APPROXIMATE MINING LOCATION.
2655 MOGOLOP	35			THE FILE CONTAINS MAPS AND PLANS TO SHOW THE POSITION OF THE MOGOLOP, MALUNGI, AND KANWA ASBESTOS CLAIMS, WITH PROSPECTING LICENCES 2177-8, 3320-1, 3323, 332.
146 LUMPUMA	35	619215	8544301	THESE DEPOSITS ALL APPEAR TO HAVE POTENTIAL FOR EXTENSIONS, EITHER ALONG STRIKE OR DOWN DIP, OR BOTH.
147 MWELLUSHI	35	604798	8553576	THESE DEPOSITS ALL APPEAR TO HAVE POTENTIAL FOR EXTENSIONS, EITHER ALONG STRIKE OR DOWN DIP, OR BOTH.
148 MITONDO	35	617416	8546152	THESE DEPOSITS ALL APPEAR TO HAVE POTENTIAL FOR EXTENSIONS, EITHER ALONG STRIKE OR DOWN DIP, OR BOTH.
149 LUMPUMA EAST	35	633621	8535017	THESE DEPOSITS ALL APPEAR TO HAVE POTENTIAL FOR EXTENSIONS, EITHER ALONG STRIKE OR DOWN DIP, OR BOTH.

Appendix IV-3 (3.3) Need reexamination (from Comments) Marked from map

Occurrence name	UTMZone	UTMEast	UTMNorth	Comments	Province	District
382 NYATI II-V	36	200500	83476000	ONLY THE LOCATIONS ARE GIVEN ON THE MAP. NO OTHER DETAILS. (REEVE - SOME BERYL HAS BEEN REPORTED FROM PEGMATITES IN THIS AREA.)	WITHIN 4RE	LUANGWA
389 CHAMBESI	36	212800	8362300	THE LOCATION OF THIS SITE IS GIVEN ON A MAP. NO OTHER DETAILS. ABOUT THE SAME PLACE AS QUEEN ALEXANDRA MICA	19 KM NEIC	MPIKA
391 QUEEN ALEXANDRA	36	212800	8362350	THE LOCATION OF THIS SITE IS GIVEN ON A MAP. NO OTHER DETAILS MINDECO TECHNICAL REPORT (1974) MICA AND BERYL OCCURRENCES ARE LI IN 18KM NE/E	19 KM NE/E	LUANGWA
1401 LUANSUMA	35	327000	8501000	NO INFORMATION ABOUT THE ORIGINAL DISCOVERY. RELOCATED BY ACKERMANN BUT NOT PRECISELY PLOTTED ON 50K MAP. COPPER ST/LWANSAM 27 MILES NW		KASEMPA
1522 CHAMABWE	35	365043	8117800	THE LOCATION OF THE CHAMABWE OPAL OCCURRENCE IS MARKED ON THE MAP IN THIS FILE AND GIVEN IN THE COVERING LETTER. THE FILE IS KEPT 174-01-2/S	5 KM WSW/E	CHOMA
2362 THE COMET	36	209700	8358500	QUARTZ - FELDSPAR-MICA PEGMATITE (RKP 7/85) WORKED FOR MICA. SHOWN ON 1:50K MAP.		
2413 KASHO	35	528000	8583900	MARKED ON THE TETHER SHEET 122704. DETAIL FROM THE IT GEOTHERMAL PROJECT.	LUANO 0.5 KM W/ECB	NDOLA RURAL
2488 CHANTANTE	35	398400	8664000	2 URANILUM OCCURRENCES MARKED ON MAP 112441 AND 112603. APPROX POSITION OF NORTHERN ANOMALY. THE OTHER IS 1.5 KM FURTHER SOUTH. A 2.5 KM WENW		SOLWEZI WEST
2659 BMP3	35	790400	9060100	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2659 BMP5	35	793000	9061150	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2660 BMP6	35	793000	9061000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2661 BMP7	35	793900	9069100	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2662 BMP8	35	794000	9069100	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2663 BMP9	35	790300	9065000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2664 BMP4	35	803200	9065520	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS BUT MAY BE THE SAME AS NUMBER	KAPUTA	
2665 LUENO	36	177400	8452000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2666 LUMEZI NORTH	36	478650	8649000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2667 GANGANGA	36	445800	8623450	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		LUNDAZI
2668 KAMIRURU	36	449900	8625400	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS. ROSE QUARTZ		
2671 KANGWA (1)	36	430700	8605600	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2672 KANGWA	36	432000	8604000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2674 KAPIRICHESE	36	452100	8606000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2679 NYALUBANGA	36	508000	8652500	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2681 MAESE	36	510000	8633600	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2686 NABULUNA	36	451000	8601000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS		
2690 MWENWISI	36	509500	8883100	6 COAL LOCALITIES MARKED ON THE 1:50K MAP ON A TRIBUTARY OF THE FUNDA STREAM		
2691 MAKUTU	36	518100	8942600	2 COAL LOCALITIES MARKED ON THE 1:50K MAP ON A TRIBUTARY OF THE FUNDA STREAM		
2692 MAKUTU MOUNTAINS	36	522650	8950400	GOLD MARKED ON THE 1:50K MAP ON A STREAM WHICH IS A TRIBUTARY OF THE KAMIMBI		
2703 KALULUSHI	36	524500	8936500	2 COAL LOCALITIES MARKED ON THE 50K MAPS ON THE OUTCROP OF THE LUWUMBU COAL FORMATION		
2705 MUKWABA	35	625000	8574250	KAOLINIC CLAY RECORDED ON THE 50K MAP AT THIS LOCATION AND IS PROBABLY PART OF DATABASE NUMBER 2478. BMP 133	BMP133	ISOKA
2706 RYMAR	35	798400	8503800	50K MAP GIVE REFERENCE FILE GS/102/3/3/6/1/7-25 SUMMARY IN TR85 (TECHNICAL REPORT 85.). DAMBO CLAY NOTED. 1.7 KM TO NORTH BMP46 IS		CHAMA NORTH
2709 MWAMBIZI	35	677600	8570000	GOPPER LOCALITY MARKED ON 50K MAP. NO NUMBER GIVEN	200M NW/C	MKUSHI
2711 MUSOMBIZI	36	315000	8950400	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.	4 KM N OF CB	NDOLA
2712 MUSOMBIZI	36	321000	8961000	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.		MBALA
2713 MUSOMBIZI	36	322350	8975600	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.		MBALA
2714 MUSOMBIZI	36	324200	8959150	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.		MBALA
2715 MUSOMBIZI	36	330000	8952850	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.		MBALA
2716 MUSOMBIZI	36	332900	8951150	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.		MBALA
2717 MPANDE	36	335700	8976400	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.		MBALA
2718 MPANDE	36	343250	8950400	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.		MBALA
2719 NONDO	36	300500	8943000	PLACER GOLD OCCURRENCES MARKED ON THE 50K MAPS AS MO 9 (CHELA STREAM) AND GIVEN EXTRA LETTERS.		MBALA
2720 TANGWA	35	677350	8813350	IN DAMBO R32 GRADES UP TO 0.8% CU. INFORMATION TAKEN FROM 50K MAP		MWENSE
2724 KABASA	35	697000	8801000	SITE MARKED ON 50K MAP		MANSA
2725 CHUNGUPENGU	35	699200	8807500	SITE MARKED ON 50K MAP		MANSA
2726 CHIPUSHI NORTH	35	702000	8783700	SITE MARKED ON 50K MAP		MANSA
2727 CHIPUSHI NORTH	35	702500	8784000	SITE MARKED ON 50K MAP		MANSA
2728 CHIPUSHI NORTH	35	702650	8784600	SITE MARKED ON 50K MAP		MANSA
2729 KABASA EAST	35	704300	8796600	SITE MARKED ON 50K MAP		MANSA
2730 KABASA EAST	35	704850	8798200	SITE MARKED ON 50K MAP		MANSA
2731 SEPE	35	762800	8948300	SITE MARKED ON 50K MAP		MANSA
2732 MYABA	35	765700	8948600	SITE MARKED ON 50K MAP		MANSA
2733 MATEIE	35	735800	8824000	SITE MARKED ON 50K MAP		MWENSE
2734 LUJINGMELONGA	35	736300	8825300	SITE MARKED ON 50K MAP		MWENSE
2735 MUNGANGA	35	736400	8833550	SITE MARKED ON 50K MAP		MWENSE
2736 MUNGANGA	35	736600	8834000	SITE MARKED ON 50K MAP		MWENSE
2737 MASESA	35	736700	8822200	SITE MARKED ON 50K MAP		MWENSE
2738 LOCATION A	35	738000	8827200	SITE MARKED ON 50K MAP		MWENSE
2739 CHAMWAMAKASA	35	739150	8826900	SITE MARKED ON 50K MAP		MWENSE
2740 CHIPWESA 2	35	749000	8832000	SITE MARKED ON 50K MAP		MWENSE
2741 CHIPWESA 1	35	753200	8831600	SITE MARKED ON 50K MAP		MWENSE
2742 BUNDA	35	755600	8830500	SITE MARKED ON 50K MAP		MWENSE
2743 CHANDA	35	731400	8787000	SITE MARKED ON 50K MAP		MANSA
2744 CHISAMBA 2	35	732000	8809600	SITE MARKED ON 50K MAP		MWENSE

Appendix IV-3 (3.3) Need reexamination (from Comments) Marked from map

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Comments	Alternative	Locality	Province	District
2745	CHISAMBA 1(ALONS)	35	732900	8802490	SITE MARKED ON 50K MAP			LP	MWENSE
2746	MUTONI	35	735400	8795350	SITE MARKED ON 50K MAP			LP	LUBANSESHI
2747	TARAN	35	735800	8796200	SITE MARKED ON 50K MAP			LP	LUBANSESHI
2748	LUSHIBA	35	743000	8797600	SITE MARKED ON 50K MAP			LP	LUBANSESHI
2750	MUSEBA	35	754300	8793000	SITE MARKED ON 50K MAP			LP	LUBANSESHI
2751	MUTABAK(HIMBEFWA)	35	757290	8786000	SITE MARKED ON 50K MAP			LP	LUBANSESHI
2752	CHIPANTA	35	758100	8798600	SITE MARKED ON 50K MAP			LP	LUBANSESHI
2753	MULALI	35	758700	8788400	SITE MARKED ON 50K MAP			LP	LUBANSESHI
2754	TENDE	35	768700	8783600	SITE MARKED ON 50K MAP			LP	SAMFYA
2756	YANTONYI HILL	35	233800	8693290	SITE MARKED ON 50K MAP. NO FURTHER INFORMATION			NW	MWINILUNGA
2757	LOLWA	35	263800	8680850	2 SITES MARKED FROM MAP IN AGIP QR22 (1984). OR 24 SAYS DRILLING PLANNED			NW	MWINILUNGA
2758	NTAMBWEZU	35	276650	8684650	1 SITE MARKED FROM MAP IN AGIP QR22 (1984). THE STREAM OF THIS NAME IS 6KM TO THE NE?			LP	MWINILUNGA
2759	KAMABOKA	35	336676	8674083	SITE MARKED ON 50K MAP GRID REFS FROM KEY ET AL (2000) P82		LUMWANANW	LP	SOLWEZI
2760	KALENDE	35	336100	8686150	SITE MARKED ON 50K MAP			NW	SOLWEZI
2762	MATAFWALI	35	668550	8779750	MARKED ON 50K MAP. PART OF MO 1 OCCURRENCES			LP	MANSA
2763	MOBESHI	35	672650	8779400	MARKED ON 50K MAP. PART OF MO 1 OCCURRENCES			LP	MANSA
2764	KALUMASHIBA	35	675650	8770700	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2765	MULABULA	35	681800	8763400	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2766	MISHIPASHI	35	682350	8762300	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2767	FILOLO	35	683000	8765000	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2768	FLANDE	35	684500	8768400	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2769	CHANKALAMO	35	671800	8759500	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2770	WEST MULOSI	35	700200	8767100	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2771	KAYUNBI	35	692550	8756600	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2772	KANGOMBE	35	693000	8772400	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2773	KAMBALE	35	693940	8764100	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2774	LUKWENA	35	698500	8782500	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2775	KITAKWE 2	35	697500	8780100	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2776	KANKOMBWE	35	704700	8764650	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2777	MKONDO	35	706750	8776200	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2778	KANSAMBO	35	706800	8775100	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2779	LUMWANA	35	672900	8742200	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2780	LUMWANA	35	674500	8743800	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2781	LUMWANA 3	35	678500	8734650	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2782	LUMWANA 2	35	678500	8735300	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2783	LUMWANA 1	35	678500	8736000	MARKED ON 50K MAP (MANSA MANAGANESE FIELD)			LP	MANSA
2784	LUMWANA FE	35	679600	8755600	MARKED ON 50K MAP			LP	MANSA
2785	LUMWANA FE	35	679700	8747000	MARKED ON 50K MAP			LP	MANSA
2786	FIKASA	35	679800	8752750	MARKED ON 50K MAP (MANSA MANGANESE FIELD)			LP	MANSA
2787	LUMWANA	35	679850	8755150	MARKED ON 50K MAP (MANSA MANGANESE FIELD)			LP	MANSA
2788	KONI	35	745600	8775150	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2789	GHAYENGI	35	747000	8759000	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2790	KANKIAKI	35	749100	8762200	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2791	IMONGA	35	724000	8754800	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2792	YASAKWA	35	728500	8753800	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2793	NGOBA	35	728750	8735900	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2794	GHANDA	35	736850	8753000	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2795	FRANCES MINE	35	740150	8739150	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2796	FUTI KABANGA	35	741000	8738850	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD		EILEEN'S MINE	LP	MANSA
2797	MUSAKA	35	744250	8745000	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2798	KALES	35	744350	8753400	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2799	NSONGA	35	747000	8733700	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2800	MULUNDA	35	747900	8739400	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD		BUNDU	LP	MANSA
2801	MASHIMO	35	757450	8746500	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2802	LULEMBO	35	723000	8721600	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2803	BOMBA	35	730630	8723150	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2804	FISHKWA	35	733700	8715650	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2805	KANGALONGA	35	742250	8723350	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2806	MULUNGUSHI	35	749200	8716500	MARKED ON 50K MAP. PL182 ZIMCO MANSA MANGANESE FIELD			LP	MANSA
2808	LUFILA	36	413800	8734600	2 HOT SPRINGS MARKED AT THIS LOCATION ON 50K MAP WITH NO SALT		ON SOUTIN N. SIDE OF NW	LP	MPIKA
2812	SHILOVU	35	230300	8658000	SALT LOCALITY MARKED ON 50K MP. NO OTHER INFORMATION			NW	MWINILUNGA
2813	LUIGISHI	35	245400	8669500	CU MARKED ON 50K MAP. NO OTHER INFORMATION			NW	MWINILUNGA
2814	MAPUYA	35	298100	8663480	SITE MARKED ON 50K MAP			NW	MWINILUNGA

Appendix IV-3 (3.3) Need reexamination (from Comments) Marked from map

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Comments	Alternative Locality	Province	District
2815	BASE LINE 42	35	349900	8648950	SITE MARKED ON 50K MAP. AGIP U ANOMALY		NW	SOLWEZI
2819	CHIFINSA	36	245600	8597450	SITE MARKED ON 50K MAP. PLACER GOLD		C	SERENJE
2823	LUKUSUZI	36	449500	8588100	NO OTHER DETAILS MARKED ON 50K MAP		E	LUNDAZI
2824	LUKUSUZI	36	449550	8589400	NO OTHER DETAILS MARKED ON 50K MAP		E	LUNDAZI
2825	LUKUSUZI	36	448000	8577400	NO OTHER DETAILS MARKED ON 50K MAP		E	LUNDAZI
2826	LUKUSUZI	36	448500	8589350	NO OTHER DETAILS MARKED ON 50K MAP		E	LUNDAZI
2827	LUKUSUZI	36	456250	8586300	NO OTHER DETAILS MARKED ON 50K MAP		E	LUNDAZI
2828	LUKUSUZI	36	458500	8584000	NO OTHER DETAILS MARKED ON 50K MAP		E	LUNDAZI
2830	MAOMBE NORTH	35	411300	8535000	2KM NW OF MAOMBE ON 50K MAP			
3093	LUMPUJUMA MINE CENTRE	35	594000	8555000	NO FURTHER INFORMATION 50K MAP MISSING			
3094	MUTALA HILLS CENTER	35	607000	8556000	NO FURTHER INFORMATION 50K MAP MISSING			
3124	MAGREGORS AREA	35	632500	8194500	MARKED ON 50K MAP			
3125	LUSANGASI	35	632500	8178000	MARKED ON 50K MAP			
3126	MASINKILO	35	625000	8178500	MARKED ON 50K MAP			
3127	KALAKI	35	619500	8180500	MARKED ON 50K MAP			
3128	BONDO	35	608000	8178500	MARKED ON 50K MAP			
3129	SHAVUNKIRA HILL	36	480000	8620200	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3130	SHAVUNKIRA HILL	36	480000	8619800	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3131	SHAVUNKIRA HILL	36	481700	8619700	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3132	SHAVUNKIRA HILL	36	482400	8619500	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3133	SHAVUNKITA	36	484300	8620400	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3134	SHAVUNKITA	36	485000	8620000	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3135	SHAVUNKITA	36	485000	8621100	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3136	LUSANGASHI	36	475100	8631100	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3137	WASIRA	36	478200	8641000	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3138	WASIRA	36	479100	8640300	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3139	WASIRA	36	479000	8639500	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3140	WASIRA	36	478200	8634400	LOCATIONS TAKEN BY PNM FROM ZIMCO MAP			
3143	CHITAMBA HILL	36	342100	8790400	COPPER LOCALITY MARKED ON 100K GEOLOGY MAP BY LUCACIK (REPORT 95).	CHIBETI 4KM N OF N	E	LUNDAZI
3144	MUKOBASHI HILL	36	372000	8835500	IRON LOCALITY MARKED ON 100K GEOLOGY MAP BY LUCACIK (REPORT 95).	LOCALITY N	E	CHINSALI
3145	MUKOBASHI HILL	36	343400	8732300	MINERAL LOCALITY MARKED ON AYRES 100K GEOLOGY MAP (REPORT 64)	7KM SE MN	E	CHINSALI
3146	SHWA NG'ANDU	36	338500	8741000	MINERAL LOCALITY MARKED ON AYRES 100K GEOLOGY MAP (REPORT 64)	4KM N MN	E	CHINSALI
3147	MANSHA RIVER	36	357200	8757600	MINERAL LOCALITY MARKED ON AYRES 100K GEOLOGY MAP (REPORT 64)	3.5 KM MN	E	CHINSALI
3148	MWAMBWA	36	390200	8774400	MINERAL LOCALITY MARKED ON AYRES 100K GEOLOGY MAP (REPORT 64)	2KM N OF N	E	CHINSALI
3149	SHWA NG'ANDU	36	389600	8764000	MINERAL LOCALITY MARKED ON AYRES 100K GEOLOGY MAP (REPORT 64)	3.5 KM MN	E	CHINSALI
3182	LWANZA	35	385700	8325400	GOPPER LOCALITY MARKED ON 50K MAP. SOME QUARTZ VEINS WITH PYRITE AND CHALCOPYRITE IN FRACTURES IN KATANGAN METASEDIMENTS. IS TH2 KM ABC	EAXTREMN	E	CHINSALI
3183	SHISHAMBA	35	382100	8337200	SALT LOCALITY MARKED ON 50K MAP FROM REPORT 74. SALT SEEN IN SEVERAL PLACES ALONG THE WATER COURSE. SEEMS ASSOCIATED TO (SIC) ON RIVER	ON RIVER	E	MUMBWA
2669		36	443000	8616000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2670		36	428000	8606500	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2673		36	424000	8597500	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2675		36	470800	8588700	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2676		36	470500	8586750	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2677		36	507500	8665500	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2678		36	507200	8664500	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2680		36	519800	8644350	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2682		36	442700	8622800	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2683		36	448000	8617000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2684		36	458000	8617000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2685		36	460000	8615000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2687		36	456000	8578000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2688		35	594000	8533000	LOCATION TAKEN FROM BLUE CARDS OR 1:50K MAPS			
2694		35	351480	8625600	MO TAKEN OFF THE 50K MAP WITH NO FURTHER DETAILS			
2816		35	308100	8600500	SITE MARKED ON 50K MAP		NW	KASEMPA
							NW	SOLWEZI

Appendix IV-3 (3.4) Need reexamination (from Comments) No economical interest

Occurrence name	UTMZone	UTMEast	UTMNorth	Comments
5 CHIBOTE	35	781500	8910000	NOT CURRENTLY OF ECONOMIC INTEREST. BLUE CARD AND MAP SUGGEST POSSIBLE OCCURRENCE OF PB AND ZN. CHIBOTE BARYTE MO 6A-1 ARE TO THE EAST
18 CHISASA GROUP	35	336792	8654685	TOO FAR FROM RAIL AND TOO SMALL TO BE OF ECONOMIC INTEREST.
22 LUAPULA IRON	35	347160	8764710	THE DEPOSITS ARE TOO FAR FROM RAIL TO BE OF ECONOMIC INTEREST.
102 MLEMO	36	182960	8616531	ALTHOUGH LARGE, THE RESOURCE IS TOO FAR FROM RAIL ACCESS TO BE OF ECONOMIC INTEREST.
195 KARENDA GROUP	35	491027	8378682	MANY IRON DEPOSITS, BUT GENERALLY LOW GRADE. TOO SMALL AND TOO FAR FROM RAIL ACCESS TO BE ECONOMICALLY SIGNIFICANT.
196 NALUSANGA GROUP	35	464144	8354695	THE DEPOSITS ARE TOO SMALL, LOW GRADE AND TOO FAR FROM RAIL ACCESS TO BE ECONOMICALLY SIGNIFICANT.
234 CHTUNDULU HILL	36	221444	8404767	THE AREA IS ISOLATED AND APPEARS TO BE MORE OF ACADEMIC THAN ECONOMIC INTEREST.
244 SONKWE - ITAPIRA GRO	35	467805	8299401	THE OCCURRENCES ARE TOO REMOTE TO BE OF ECONOMIC INTEREST.
323 NAMATA RIDGE	35	428880	8166578	NOT A SIGNIFICANT DEPOSIT ECONOMICALLY.
361 CHANGWENA	35	773250	8519190	LOW CONCENTRATIONS OF MONAZITE IN RIVER GRAVEL. NO ECONOMIC IMPORTANCE (M.O. ORIGINALLY FOR GOLD)
543 CHTAMBO 1	36	173481	8653333	LOW CONCENTRATIONS OF MONAZITE IN RIVER GRAVEL. NO ECONOMIC IMPORTANCE.
647 CHTUNDULU HILL NB	36	224800	8438200	NOBILUM SOIL AND DRAINAGE ANOMALIES ORIGINATE FROM LOW-GRADE PYROCHLORE-BEARING GRANITE. NO ECONOMIC SIGNIFICANCE.
2626 DUNDULAS - KYATILA	35	377798	8050967	HOST ROCKS ARE BASALT. NOT OF ANY ECONOMIC INTEREST.
2627 SIANSIMBI 1	35	382973	8061025	NOT OF ANY ECONOMIC INTEREST.
2628 FALLS VIEW FARM	35	391604	8050914	NOT OF ECONOMIC INTEREST.
2629 NAMPONGO HILL	35	394604	8071222	NO ECONOMIC IMPORTANCE.
2630 SIANSIMBI 2	35	382867	8062071	NO ECONOMIC INTEREST.
2631 KUNYAMBEZU	35	393490	8055230	NO ECONOMIC INTEREST.
2632 SIADAVETI 1	35	372650	8045935	NO ECONOMIC INTEREST.
2636 KAZUNGULA 2	35	382539	8021957	HOSTED IN BASALT ROCKS. MANY OF THE PLACES VISITED APPEAR TO BE OF NO ECONOMIC INTEREST AND DO NOT NEED VALUATION WORK.
363 CHONDOKA	35			LARGE PEGMATITE BEARS SMALL, POOR QUALITY MICA. PROBABLY OF NO ECONOMIC IMPORTANCE.
556 CHIWOWO	35			LOW CONCENTRATIONS OF MONAZITE IN RIVER GRAVEL. NO ECONOMIC IMPORTANCE (M.O. ORIGINALLY FOR GOLD)
586 CHIMBE	35			INVESTIGATIONS WERE MADE IN THE CHIWOWO AREA, USING TRENCHING AND PITTING, FOR MANGANESE. AT THESE LOCALITIES, SMALL QUARTZ/HAEMATITE VEINLETS BEAR A LITTLE ONLY MINOR AMOUNTS OF RUBBLE WERE RECOVERED. NO TRUE REEF WAS FOUND. THE SOURCE OF MANGANESE HERE IS MOST LIKELY A SMALL "BLOW". THE PROSPECT IS OF NO ECONOMIC VALUE.
1004 MWATESHI QUARRY	36			DISSEMINATED FLUORSPAR OCCURS IN THE KAKONTWE LIMESTONES AND DOLOMITES AT MWATESH QUARRY. THE OCCURRENCE IS NOT ECONOMIC.
1103 M 59/A	35			URANIUM ADSORBED IN KARROO SHALE IS OF LOW TENOR AND OF NO ECONOMIC INTEREST.
1588 MUKONI	35			A GREEN COLORATION IN AMYGDALODAL VOLCANIES ON THE OLD CLAIMS OLD CLAIMS PROVED TO BE NON-CUPRIFEROUS AND IS PROBABLY A GREEN A GREEN ZEOLITE. THE

Appendix IV-3 (3.5) Need reexamination (from Comments) Same Comments No Locality

Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Comments
2928 ABBA	36	509957	8631301		pegmatite green and pink tour.spessartite.aqua Mineralisation occurs in lateritic soils.Eluvial deposit. Visited by ERIPTA
2924 APPLE GREEN	36	430510	8587986		pegmatite N-S rtz.aqua Aqua. associated with schorl. Visited by ERIPTA
2879 ARIES II	36	518000	8646100		Pegmatite 40° Aq. Be. Mic. radioactive minerals.xxtal qtz
2884 ARIES MINE	36	518000	8645000		Pegmatite 70° NE Aq. Be. Mica. Rtz. Cairngorm. Hematite. Radioactive minerals
2930 BIG MINE	36	424387	8597555		pegmatite aqua.amethyst.rtz. Aqua from sporadic massive qtz.musc.schorl pockets. Visited by ERIPTA
2852 CHANKALAMU II	36	487349	8700260		Pegmatite 310° NW Aqua.grt Host rock:biotite-qtz.gneiss. Spinel.schorl and grt prominent. Visited by ERIPTA GEOLOGISTS 1999This is an illegal and dormant mine made of two pits. th
2857 CHAVUMBUKWA	36	484048	8659578		Pegmatite 320° NW Aqua. Peg. pinches out down dip. Peg on contact between bio.gneiss and metabasics. Visited by ERIPTA GEOLOGISTS 1999
2943 CHIEF	36	489177	8602131		pegmatite N-S/40° E aqua. qtz-musc-fid veins randomly oriented in abundance. Visited by ERIPTA
2934 CHIEF CHIKOMENE	36	457509	8587560		pegmatite 300° NW aqua.amethyst. Outer: fld,qtz,schorl. musc.aqua.amethyst.epid.Inner: massive qtz. Visited by ERIPTA
2854 CHIENDE MINE	36	510420	8664763		Pegmatite E-W Aqua. Mainly consists of musc. Visited by ERIPTA GEOLOGISTS 1999
2860 CHIRAKU	36	436831	8560138		Pegmatite aqua. Outer: qtz,fld,schorl,musc.rtz.aqua.Inner: fld,qtz.aqua Visited by ERIPTA GEOLOGISTS 1999
2880 CHINGOLONGO	36	504517	8664055		Pegmatite 300° NW Aqua. Outer:qtz,fld,musc. Core: qtz(massive). aqua. Visited by ERIPTA GEOLOGISTS 1999
2851 CHINGUZYA	36	507498	8683466		Pegmatite N-S Be.aqua. Occasional massive qtz in qtz-fid-musc matrix. Visited by ERIPTA GEOLOGISTS 1999
2830 CHINTINYA	36	424388	8596708		pegmatite 340° NW aqua.amethyst Both aqua and amethyst recovered from veins within the fld. Visited by ERIPTA
2931 CHINULA	36	507152	8683071		Pegmatite Aqua. Aqua in qtz-fid-musc pockets Visited by ERIPTA GEOLOGISTS 1999
2946 CHIPEMBELE	36	481805	8600522		pegmatite N-S/80° E rtz.aqua The peg thins out down depth. Small peg veins dip 30° E. specks of musc common. Visited by ERIPTA
2945 CHIPPEO	36	490134	8603520		pegmatite aqua.amethyst musc-qtz-fid veins common. Visited by ERIPTA
2842 CHISUNJUNU	36	502420	8687200		Pegmatite 60° /45° NW garnet. aqua Host rk: gr. Gneiss.Intermediate zone: musc.garn.fld.magn. Outer: fld,qtz,musc. Inner: qtz. Visited by ERIPTA GEOLOGISTS 1999
2867 CHUMBILI	36	429922	8603857		Pegmatite N-S Aquar.rtz. Epidote encrusted in quartz.hae common. Peg cut bio-gneiss. Silicification common.The Chlumbili small-scale mine is characterised by several pits of about 10 x
3044 CHIZI	36	490000	8617000		pegmatite N-S
2933 FWAYAFWAYA	36	457454	8602640		pegmatite 320° NW citrine.aqua,xtal qtz. Outer: schorl. qtz,musc,magn,cherl,ctr,fld.aqua. Inner: massive fld,xtal qtz. Visited by ERIPTA
2921 JEFF	36	431922	8601097		Pegmatite N-S aquar.rtz. peg cut bio-granitic gneiss.Innergrowth of apple green and blue aquamarine schorl and fld. Visited by ERIPTA 4 x 10 x 3m deep pit exposes a N-S trending fld
2938 KABELUBELU	36	487915	8630003		pegmatite E-W xtal qtz,aqua,green,blue and pink tourm. Cut bio.gneiss. Outer: schorl. musc,qtz. Inner: fld,hae,blue,pink,green tour:Inner:fld,schorl. qtz. Visited by ERIPTA
2927 KAFULA	36	427515	8568879		Pegmatite N-S aqua Concordant to foliation in micaceous gneiss. Outer:qtz,fld,sch,musc.rtz. Inner:rtz.aqua. Visited by ERIPTA
3072 KAMILULU	36	449500	8625300		pegmatite 320° NW Grt. Be. Aqua
2926 KANLUCHI	36	484268	8603762		pegmatite aqua. Outer: fld,qtz,musc.schorl aqua. Inner: Massive qtz. Visited by ERIPTASeveral shallow excavations have been sunk on highly weathered north-south trending pegmatites
3011 KAOMBKA	36	489100	8630200		pegmatite 340° NE Aq,Be,Rb,tour,xtal,rtz. Rubillite is the pink form of tourmaline
2875 KAPANGA	36	506000	8663700		Pegmatite 50° Aq. Fld North of Hoya School. Kapanga Mine Pegmatite mine Once mined for Aq. Fld
2864 KAPIRINKESA HILL I	36	451787	8601389		Pegmatite N-S Aqua Rtz,amazonite, schorl with minor musc.Several shallow excavations exist. maximum 4x1x2m deep, on a hill of whitish quartz with some rose quartz. The rose quart
2865 KAPIRINKESA HILL II	36	452144	8605667		Pegmatite N-S Rtz.aqua. Intensively excavated for rtz. and aqua. Outer: zoner,qtz,fld,musc,hae.aqua. Inner:rtz,fld,schorl,haeA 10 x 50 x 10m deep pit on a ridge greater than 20m in width
2929 KATOLAMA	36	510263	8631134		pegmatite 290° NW aqua spessartite.grt. Outer: musc,patassic,fld,qtz,schorl. Core: Patassic fld. qtz.sch.spessartite.grt.aqua.cinnabar. Visited by ERIPTA
2868 KATONDULO	36	422593	8574526		Pegmatite aqua xtal schorl, xtal apple and green aqua in weathered pegA pit of less than 2m deep exposes a highly weathered 320° trending feldspar-quartz-muscovite pegmatite. Th
2861 KAVIRONDA	36	510090	8664065		Pegmatite Aqua sporadic clusters of massive qtz host aqua. Visited by ERIPTA GEOLOGISTS 1999
3002 KAZILILA	36	475600	8629500		pegmatite 10° NE
2948 LUMEZI SOUTH	36	473300	8644300		pegmatite 45° NE aq,Be,On,m,fld
2832 LUNDZI	36	473500	8669000		Pegmatite North-South From TSBanda's report
2833 LUNDZI	36	473501	8669100		Pegmatite 60° NE By T S Banda
2834 LUNDZI	36	486000	8666500		Pegmatite 30° NE Aplite veins 70° NE trend within vicinity By T S Banda
2835 LUNDZI	36	486100	8666520		Pegmatite 30° NE Aplite veins 70° NE trend within vicinity By T S Banda
2836 LUNDZI	36	486000	8666510		Pegmatite 30° NE Aplite veins 70° NE trend within vicinity By T S Banda
2837 LUNDZI	36	484500	8664000		Pegmatite 50° NE Within aplite veins with same trend. By T S Banda
2838 LUNDZI	36	475300	8663400		Pegmatite East-west By T S Banda
2839 LUNDZI	36	481900	8656000		Pegmatite East-west Be,aqua,tour.grt. Mineralised pegmatite between Lundazi river and Kamatzi. By T S Banda
2840 LUNDZI	36	493100	8653000		Pegmatite N-S Two pegm. Within same vicinity. By T S Banda
2841 LUNDZI	36	444000	8623200		Pegmatite E-W Be.aqua By T S Banda
2869 LUNDZI	36	442000	8622200		Pegmatite 30° Be. Aq.
2871 LUNDZI	36	442800	8619000		Pegmatite
2872 LUNDZI	36	502000	8609000		Pegmatite 33°
2873 LUNDZI	36	507000	8669000		Pegmatite 330°
2874 LUNDZI	36	508200	8668800		Pegmatite 80° Aq. fld
2876 LUNDZI	36	518100	8657700		Pegmatite 70° Aq. Be. Mica
2877 LUNDZI	36	516000	8654900		Pegmatite 50° Aq. Be. Aq. Be. and Radioactive minerals.
2878 LUNDZI	36	523000	8652000		Pegmatite E-W Aq. Be.cu.
2880 LUNDZI	36	523000	8652000		Pegmatite E-W Aq. Be. Cu.
2881 LUNDZI	36	506000	8653200		Pegmatite N-W Aq. Be.
2882 LUNDZI	36	522700	8627000		Pegmatite 20°
2883 LUNDZI	36	520500	8626800		Pegmatite N-S
2885 LUNDZI	36	500000	8637000		Pegmatite 50° NE
2886 LUNDZI	36	500000	8637000		Pegmatite 80° NE
2870 LUNDZI	36	442500	8619900		Pegmatite Aq. Be.
2848 MALAGA MINE PIT 1	36	522878	8691713		Pegmatite Light blue aqua. Musc weathered to kaol. Spinel common. Visited by ERIPTA GEOLOGISTS 1999The pegmatite is composed of quartz -pink feldspar-muscovite mica semi of
2849 MALAGA MINE PIT 2	36	524945	8691116		Pegmatite Light blue and apple green aqua. Large books of musc. Aqua recovered from lat. Soils. Visited by ERIPTA GEOLOGISTS 1999

Appendix IV-3 (3.5) Need reexamination (from Comments) Same Comments No Locality

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Comments
2843	IMANTEPA	36	507457	8681143		pegmatite 60° NE blue and green aqua, gnt(minor). Core consists of musc, quartz, schorl. Outer zone consists of fld, qtz, musc(very prominent), schorl, aqua. Visited by ERIPTA. GEOLOGISTS
2932	MGALA	36	425268	8597189		pegmatite 300° NW aqua, rqtz contact between peg and a 60° trending rqtz vein. Visited by ERIPTA
3042	MONDO	36	489300	8623800		pegmatite N-S
2935	MTABAMA	36	460642	8597234		pegmatite 290° NW aqua. Aqua from latritic soils. Possibly residual soils. Visited by ERIPTA
2939	MUGWAZO	36	491243	8629967		pegmatite N-S aqua. Aqua from latritic soils. Possibly residual soils. Visited by ERIPTA
2846	MUNYUKWA	36	500599	8669017		Pegmatite Aqua Cutting feldspar-qtz-biotite gneiss. Spinel together with fld, qtz, musc, schorl. Visited by ERIPTA GEOLOGISTS 1999
2844	MUSANGU WANYUNI	36	491737	8702919		Pegmatite 60° NE Be gnt, aqua. Core: Massive qtz, Be. Outer: Medium grain qtz, musc, fld, Be, schorl, gnt. Visited by ERIPTA GEOLOGISTS 1999
2853	MUSUKA KAPWANYA	36	516313	8699499		Pegmatite Rotz aqua. Schorl is quite prominent. Visited by ERIPTA GEOLOGISTS 1999. The mine comprises a 6x3x4m deep pit on a highly weathered quartz-feldspar-muscovite-tourmaline
2856	NYATIYA CHICHUMBA	36	484004	8659889		Pegmatite 80° NE Aqua. Musc. major mineral. Visited by ERIPTA GEOLOGISTS 1999
2942	PAPIRO	36	486915	8587004		pegmatite NW-SE aqua, methy. Outer: musc, fld, qtz, schorl, magn. Inner: qtz, aqua, amethy. (from laterite). Visited by ERIPTA
2925	PWAZI B	36	432325	8566044		pegmatite aqua. peg cut the porphy gneiss. Pebbles of rqtz common. Both blue and green aqua. Visited by ERIPTA
3036	SHAMVINKIRA	36	486100	8621900		pegmatite N-S fld
2922	SPRITE	36	430132	8590128		Pegmatite E-W green tour aqua. Peg plug in bio gneiss. White musc assoc. with schorl. Visited by ERIPTA
2944	SUMAILI	36	487877	8602917		pegmatite aqua. Outer: musc, qtz, fld, inner: rqtz, aqua. Visited by ERIPTA. small open cast pit has been excavated on a rose quartz-muscovite-pink feldspar pegmatite. The pegmatite is
2926	VIGILANT	36	431209	8584955		pegmatite aqua poorly exposed. Visited by ERIPTA
2847	VILIMUKULU HILL	36	489009	8695660		Pegmatite 300° NW Minor gnt. Peg discordant to foliation in gneiss(60° /40° SE). Visited by ERIPTA GEOLOGISTS 1999
2953	VYASOYO	36	486700	8642700		pegmatite E-W aqua, rqtz, ch.
2950	VYASOYO WEST	36	481900	8643500		pegmatite 130° SE Be, aqua, gn
3014	WASIRA	36	487700	8628200		pegmatite 45° NE Be
3005	WASIRA AQ.	36	485000	8629300		pegmatite 15° NE fld, sq
3013	WASIRA NORTH	36	487700	8627400		pegmatite 45° NE Ag, fld
2996	YASOYA	36	475000	8630000		pegmatite E-W
2947	YOBE	36	469488	8605321		pegmatite E-W aqua. Outer: musc, qtz, schorl, fld, inner: qtz, aqua. Visited by ERIPTA
2923	ZOOM	36	437228	8605382		Pegmatite N-S aqua, rqtz. Many peg cut gran-biotite gneiss. Schorl prominent. Visited by ERIPTA. This locality is defined by two pits measuring 3 x 1.5 x 5m deep sunk on a N-S trending f
2937	ZIMMERMAN (HITLER)	36	489656	8605138		pegmatite 20° NE aqua. Outer: fld, musc, soho. Inner: massive qtz, aqua. Aqua from core qtz and core qtz-fld contact. Visited by ERIPTA. pit of 2x6x20m deep on a 020° trending zoned
2831		36	457000	8629000		pegmatite 40° NE xtal qtz. qtz-fld vein for xtal qtz. Visited by ERIPTA GEOLOGISTS 1999
2858		36	499060	8667077		
2859		36	498600	8667319		
2863		36	503502	8660132		Pegmatite 320° NW Aqua Peg discordantly cut the metabasals. Visited by ERIPTA GEOLOGISTS 1999
2866		36	431724	8602901		Pegmatite N-S Muscovite Inner: musc(mim), fld, qtz. Outer: qtz, fld, musc
2887		36	501100	8637000		Pegmatite N-S Rqtz. peg in contact with rqtz vein. Common occurrence in the area.
2888		36	501000	8636700		Pegmatite 20° NE
2889		36	503500	8635500		Pegmatite 20° NE
2890		36	504000	8636000		Pegmatite NS
2891		36	504800	8635500		Pegmatite E-W
2892		36	504800	8635000		Pegmatite N-S
2893		36	505000	8634900		Pegmatite 20° NE
2894		36	506000	8635500		Pegmatite 10° NE
2895		36	509500	8632200		Pegmatite 10° NE
2897		36	504200	8630200		Pegmatite 10° NE
2898		36	505000	8630300		Pegmatite N-S
2900		36	507300	8629300		Pegmatite 60° NE
2901		36	507800	8629300		Pegmatite 45° NE
2902		36	500000	8628800		Pegmatite 10° NE
2903		36	512900	8625500		Pegmatite 30° NE
2904		36	500200	8626200		Pegmatite 10° NE
2905		36	500300	8625200		Pegmatite 20° NE
2906		36	500400	8625100		Pegmatite 20° NE
2907		36	504200	8624900		Pegmatite 350° NW
2908		36	500500	8624100		Pegmatite 70° NE
2909		36	500500	8624000		Pegmatite 10° NE
2910		36	500400	8623300		Pegmatite 70° NE
2911		36	500100	8621000		Pegmatite 10° NE
2912		36	501500	8620900		Pegmatite 340° NW
2913		36	503800	8621100		Pegmatite 350° NW
2914		36	504600	8620900		Pegmatite 10° NE
2915		36	504900	8621000		Pegmatite 80° NE
2916		36	505100	8621600		Pegmatite N-S
2917		36	505800	8621900		Pegmatite 350° NW
2918		36	506100	8623000		Pegmatite 355° NW
2919		36	423872	8578220		Pegmatite 40° NE Gnt aqua. Highly weathered peg. fld alters to clay, schorl and gnt occur in clusters.

Appendix IV-3 (3.5) Need reexamination (from Comments) Same Comments No Locality

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Comments
2949		36	480800	8644500		pegmatite N-S
2951		36	484500	8643800		pegmatite 45° NE
2952		36	484800	8643300		pegmatite 45° NE
2954		36	477400	8642500		pegmatite 70° NE
2955		36	481900	8642000		pegmatite 60° NE
2956		36	485900	8642000		pegmatite E-W Be,aq
2957		36	490900	8640500		pegmatite 60° NE aq
2958		36	498500	8640800		pegmatite 30° NE
2959		36	490600	8640000		pegmatite N-S
2960		36	484100	8640100		pegmatite 330° NW
2961		36	484900	8640600		pegmatite 20° NE
2962		36	487800	8638700		pegmatite 20° NE
2963		36	476100	8637100		pegmatite 300° NW
2964		36	477200	8637500		pegmatite 45° NE
2965		36	477100	8636500		pegmatite E-W
2966		36	478300	8637600		pegmatite 20° NE
2967		36	478600	8637200		pegmatite 60° NE
2968		36	478200	8636800		pegmatite 70° NE
2969		36	478200	8636200		pegmatite 70° NE
2970		36	478200	8636000		pegmatite 340° NW
2971		36	478300	8635500		pegmatite 290° NW
2972		36	478300	8635300		pegmatite 300° NW
2973		36	478400	8634300		pegmatite 15° NE
2974		36	482800	8636500		pegmatite 45° NE
2975		36	483000	8636100		pegmatite 10° NE
2976		36	483800	8635600		pegmatite 45° NE
2977		36	487100	8635400		pegmatite 45° NE Fid
2978		36	488900	8636000		pegmatite 30° NE
2979		36	489000	8636000		pegmatite 330° NE
2980		36	493500	8637000		pegmatite 50° NE
2981		36	492500	8635600		pegmatite 40° NE
2982		36	480000	8633800		pegmatite 45° NE
2983		36	488600	8633700		pegmatite 45° NE
2984		36	490500	8633000		pegmatite 300° NW Aq,fid
2985		36	493200	8633100		pegmatite 320° NW
2986		36	493200	8631900		pegmatite 30° NE
2987		36	494900	8633700		pegmatite 30° NE
2988		36	495000	8633000		pegmatite 45° NE
2989		36	495300	8632600		pegmatite 45° NE
2990		36	482300	8632300		pegmatite 45° NE
2991		36	482000	8632100		pegmatite 45° NE
2992		36	480900	8628900		pegmatite 120° SE
2993		36	479600	8631500		pegmatite N-S
2994		36	479700	8631400		pegmatite E-W
2995		36	474000	8630500		pegmatite 40° NE Be, aq
2997		36	475000	8629800		pegmatite E-W
2998		36	475900	8630500		pegmatite 45° NE
2999		36	475600	8630100		pegmatite 45° NE
3000		36	475600	8630000		pegmatite 45° NE
3001		36	476100	8630100		pegmatite 45° NE
3003		36	484100	8627300		pegmatite 20° NE fid
3004		36	484700	8628100		pegmatite 30° NE
3006		36	486000	8626600		pegmatite 45° NE
3007		36	486000	8626400		pegmatite 45° NE
3008		36	486000	8628800		pegmatite 340° NE Tour,aq,qtz,Cn
3009		36	486500	8630500		pegmatite 40° NE Aq,tour,Cn
3010		36	487500	8630200		pegmatite 45° NE
3012		36	489300	8631500		pegmatite 50° NE fid
3015		36	487700	8626000		pegmatite 340° NW
3016		36	488000	8626200		pegmatite 45° NW
3017		36	493000	8629500		pegmatite 340° NW Aq
3018		36	493700	8628300		pegmatite 120° SE Be,aq
3019		36	494500	8629000		pegmatite 45° NE

Appendix IV-3 (3.5) Need reexamination (from Comments) Same Comments No Locality

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Comments
3020		36	494000	8627800		pegmatite 45° NE
3021		36	473300	8622850		pegmatite 45° NE
3022		36	474300	8620400		pegmatite 45° NE Fid
3023		36	478300	8625100		pegmatite 355° NW
3024		36	480000	8624200		pegmatite 320° NW
3025		36	481300	8626500		pegmatite 320° NW
3026		36	481300	8626300		pegmatite 45° NE
3027		36	482900	8621700		pegmatite N-S
3028		36	483100	8621700		pegmatite N-S
3029		36	483100	8622800		pegmatite 330° NW
3030		36	483200	8622900		pegmatite 345° NW
3031		36	484700	8622600		pegmatite 45° NE
3032		36	484700	8622000		pegmatite 45° NE
3033		36	485100	8622000		pegmatite 75° NE
3034		36	485100	8621900		pegmatite 45° NE
3035		36	486000	8622600		pegmatite 45° NE
3036		36	488000	8621100		pegmatite 45° NE
3038		36	488000	8625200		pegmatite 20° NE
3039		36	488000	8624800		pegmatite 70° NE
3040		36	488000	8623900		pegmatite 110° SE
3041		36	488300	8618100		pegmatite 20° NE
3043		36	489500	8622000		pegmatite N-S Rb. gnt.
3045		36	490900	8617000		pegmatite N-S
3046		36	491100	8617000		pegmatite N-S
3047		36	491200	8617000		pegmatite N-S
3048		36	490700	8616000		pegmatite N-S Aq. Ch. opt. rqtz. Opaline Qtz is recorded here
3049		36	490100	8618500		pegmatite 20° NE
3050		36	491700	8618500		pegmatite 45° NE
3051		36	491100	8617800		pegmatite 20° NE
3052		36	458800	8626800		pegmatite 355° NW
3053		36	459000	8627200		pegmatite N-S
3054		36	458800	8630500		pegmatite
3055		36	458800	8630900		pegmatite
3056		36	459800	8630800		pegmatite
3057		36	460000	8630800		pegmatite
3058		36	460000	8631200		pegmatite
3059		36	460700	8630800		pegmatite
3060		36	460800	8630000		pegmatite
3061		36	457000	8639700		pegmatite N-S
3062		36	457200	8639200		pegmatite 10° NE
3063		36	459000	8638800		pegmatite 45° NE
3064		36	457000	8629000		pegmatite 350° NW
3065		36	449500	8610200		pegmatite 45° NE
3066		36	448800	8623000		pegmatite 45° NE
3067		36	446800	8624100		pegmatite 300NW
3068		36	446100	8624100		pegmatite 300° NW
3069		36	446200	8624800		pegmatite 300° NW
3070		36	446900	8625000		pegmatite 345° NW Fid
3071		36	448000	8623400		pegmatite 10° NE
3073		36	452100	8623500		pegmatite 10° NE Fid
3074		36	452800	8623500		pegmatite 355° NW
3075		36	450800	8638500		pegmatite 45° NE Bz. Aq
3076		36	460000	8625100		pegmatite 355° NW
3077		36	454900	8625800		pegmatite 355° NW
3078		36	456200	8629900		pegmatite 355° NW
3079		36	458800	8626800		pegmatite 355° NW
3080		36	459000	8627200		pegmatite N-S
3081		36	458800	8630500		pegmatite
3082		36	458800	8630900		pegmatite
3083		36	459800	8630800		pegmatite
3084		36	460000	8630800		pegmatite
3085		36	460000	8631200		pegmatite
3086		36	460700	8630800		pegmatite

Appendix IV-3 (3.5) Need reexamination (from Comments) Same Comments No Locality

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Locality	Comments
3087		36	460800	8630000		pegmatite
3088		36	457000	8639200		pegmatite N-S
3089		36	457200	8639200		pegmatite 10° NE
3090		36	459000	8638800		pegmatite 45° NE
3091		36	457000	8629000		pegmatite 350° NW
2862		36	494926	8669406		Pegmatite Aqua Blue aqua associated with massive qtz. Visited by ERIPTA GEOLOGISTS 1999
2940		36	440687	8604407		pegmatite aqua Cut the bio-gneiss. Outer: schorl/musc. Innerqtz,flid aqua. Aqua zoned:outer green while inner blue. Visited by ERIPTA
2855		36	517389	8685059		Pegmatite Aqua Musc as big as 50x3cm. Visited by ERIPTA GEOLOGISTS 1999

Appendix IV-3 (3.6) Need reexamination (from Comments) No Comment

Occurrence name	UTMZone	UTMEast	UTMNorth	Comments	Locality	Distance	Province	District	Constituents	GSNumber	Alternative	Confidential	Lat	Long
98 TINKERS	35	630210	8577431		CENTRAL COPPERBELT, NKANA DIVISION	10 KM SSW OF KITWE	OB	NKANA	22		CHINTWA		0 125200	281200
104 KAMANJEEVA GROUP	36	463768	8627470		NEAR LUNDAZI-MBUZI ROAD	APPROXIMATELY 70 KM WEST OF LUNDAZI	OB	LUNDAZI	50				0 125500	324000
638 KANDIOLE	35	487100	8056200		NEAR THE MULUNGWA RIVER (POSITION IS VAGUE)		S	KALOMO	120				0 173456	265242
678 CHELA	36	305300	8961600		38M. FROM ABERCORN, BEARING 193*		N	MBALA	95				0 092325	311337
681 CHELA III	36	310530	8961600		38KM FROM ABERCORN, BEARING 192* (S. OF SENGGA HILL)		N	MBALA	95				0 092326	311029
682 MUMOLI I	36	292000	8951500		38 KM FROM ABERCORN, BEARING 182*		N	MBALA	95				0 092851	310919
683 MUMOLI II	36	300500	8943200				N	MBALA	95				0 093323	311057
684 MUMOLI III	36	313300	8952800				N	MBALA	95				0 092813	311758
685 MUMOLI IV	36	313280	8951300				N	MBALA	95				0 092902	311757
829 MALUNDWE	35	370450	8653000		62 KM WEST OF SOLWEZI		NW	SOLWEZI WEST	112 829		LUMWANA		0 121100	294633
1062 LUNDAZI	36						E						0	
2594 LUCO MINE	35	487730	8034090				S	KALOMO	120				0 174655	265303
2622 GHTUMBO	35	703600	8279400				LK	LUSAKA	78				0 153322	265355
2624 KALYANGWE RIVER	35	491270	8044667				S	KALOMO	120				0 174111	265504
2638 SIZYONGO	35	510650	8096100		NEAR MASUKU MISSION		S	CHOMA	115				0 171317	270601
2652 MUMBWA COPPER	36						E		0				0	
2697 LUWINGU	35	823300	8929400				N		0 6f				0 094024	295645
2698 LUWINGU	35	828300	8925400				N		0 6h				0 094233	295330
2699 LUWINGU	35	793200	8914500				N		0 6a				0 094636	294128
2700 LUWINGU	35	796900	8915500				N		0 6b				0 094803	294223
2701 LUWINGU	35	801150	8915500				N		0 6c				0 094802	294442
2702 LUWINGU	35	806300	8917650				N		0 6d				0 094651	294731
2703 LUWINGU	35	806300	8920800				N		0 6e				0 094508	294730
2704 LUWINGU	35	809700	8919150				N		0 6f				0 094601	294922
2708 MINDOLO SHAFT	35	628400	8565350		SHAFT MARKED ON 50K MAP JUST SOUTH OF MINDOLO TOWNSHIP		OB	MUFULIRA	28				0 124743	281059
3097 KAFWALA	35	614250	8560750				OB	NDOLA RURAL	0				0 130105	280313
3098 NKURULA	35	616350	8551450				OB	NDOLA RURAL	36				0 130608	280424
3099 KABASHIELA	35	617800	8544600				OB	NDOLA RURAL	36				0 130950	280513
3100 PIRALA	35	619680	8550800				OB	NDOLA RURAL	36				0 130628	280615
3101 FWAYA FWAYA	35	622800	8552100				OB	NDOLA RURAL	36				0 130546	280758
3102 GERTINA	35	623250	8546000				OB	NDOLA RURAL	36				0 130904	280814
3103	35	624500	8556550				OB	NDOLA RURAL	36				0 130321	280654
3104 MUFULI	35	624780	8550000				OB	NDOLA RURAL	36				0 130654	280904
3105	35	625900	8557200				OB	NDOLA RURAL	36				0 130259	280940
3106	35	626000	8553850				OB	NDOLA RURAL	36				0 130448	280944
3107 MUKOMBO	35	619000	8528350				OB	NDOLA RURAL	36				0 131839	280555

Appendix IV-3 (4) Wrong sheet number

Occ. number	Occurrence name	UTMZone	UTMEast	UTMNorth	Lat	Long	Sheet number	Right Sheet #	Locality	Province	District	Grid accur	Focus	Occurrence	Importance
689	MANIKA GOLD	36	392000	8951500	082905	320058	0931	0932	75 KM SSW OF MBALA ON THE LUCHENICHE RIVER	N	MBALA		0	D	U
2852	CHANKALAMU II	36	487349	8700260	114531	325302	1133D4	1132		E			100		U
3112	KAWANGA	35	326300	8673300	115952	252417	1225A2	1125		NW	SOLWEZI		0		U
2467	CHILOMO	36	241630	8597880	124026	303716	1224	1230	N OF KANONA	C	MKUSHI NORTH		0		U
109	PANELA	36	420900	8559600	130147	321614	1232	1332	AREA SURROUNDS THE FORMER LIME WORKS NEAR THE MWANGAZI RIVER	E	LUNDJAZI		0		U
2432	CHIBOLELE (SERENJE)	36	222223	8509207	132824	302604	1324	1330	35 KM EAST OF SERENJE	E	SERENJE		100		U
1086	JKANDA	35	263200	8458800	135556	244830	1424	1324	13.5 KM E OF DONGWE / LALATUTA CONFLUENCE	NW	KASEMPA		100	D	1
230	BUFFALO – QUAGGA, CH	35	759883	8340400	150000	282500	1429	1529	WESTERN END OF LUNSEMFWA VALLEY	LK	LUSAKA		0		U

Appendix IV-3 (5) Difference of location Latitude/Longitude - UTM(WGS84) Zone 36

Occ number	Occurrence name	LatDec	LongDec	UTMZone	UTMEast	UTMNorth	Conv UTM E	Conv UTM N	Diff E	Diff N	Diff distance
1041	NJAKWA	-12.23056	31.641667	36	469000	86537000	352248.66	8647304.34	116.75134	6.39588	116.92640
311	CHASWETA	-15.256389	30.272500	36	208294	8303123	207029.71	8311479.98	1.26429	-8.35698	8.35698
313	MWAMBUTO	-15.296389	30.093333	36	195734	8304808	187830.12	8306801.39	7.90388	-1.99339	8.15138
7	LUPANSA	-9.583333	30.166667	36	184640	8939800	188971.44	8939374.03	-4.33144	-5.41403	6.93348
233	UMBA RIVER	-14.346944	30.606111	36	244725	8414241	241808.27	8412565.75	2.91673	1.67525	3.36360
237	IMPONGO	-14.320833	30.175000	36	194333	8415520	193244.93	8414931.28	-8.1194	588.78	1.08549
1597	RMC 137	-15.065556	30.150278	36	193600	8332600	193617.14	8332441.55	-17.14	158.42	159.94
1602	RMC 138	-15.088056	30.073611	36	185440	8330000	185401.38	8329841.96	-1.38	158.04	158.04
1613	YALA HILL	-15.141111	30.170278	36	195870	8324260	195876.67	8324103.65	-6.67	156.35	156.48
1600	RMC 133	-15.047778	30.033333	36	181000	8334400	181007.9	8334244.06	-7.90	155.94	156.14
393	NYALUGWE	-14.738333	30.357778	36	215500	8369100	215510.53	8368945.53	-10.53	154.47	154.83
1599	NACHOMBA	-15.238333	30.104167	36	188900	8313400	188908.9	8313245.47	-8.90	154.53	154.79
413	SOMERLEY MINE	-14.829444	30.347222	36	214500	8359800	214492.51	8358845.59	7.49	154.41	154.79
239	NCHONCHO	-14.971944	30.037222	36	181300	8342800	181313.83	8342647.05	-13.83	152.95	153.57
455	NCHONCHO BISMUTH	-14.971944	30.037222	36	181300	8342800	181313.83	8342647.05	-13.83	152.95	153.57
389	CHAMBESI	-14.799444	30.331944	36	212800	8362300	212807.59	8362147.26	-7.59	152.74	152.93
382	NYATI IF-V	-14.930833	30.216111	36	200500	8347600	200512.26	8347448.47	-12.26	151.53	152.03
2516	UNYANYA STREAM	-14.969444	30.283056	36	207773	8343414	207771.23	8343262.95	1.77	151.05	151.06
397	MAKOLEKA	-13.861389	30.831111	36	265900	8432200	265906.78	8432049.18	-6.78	150.82	150.97
1190	MAKOLEKA	-13.861389	30.831111	36	265900	8432200	265906.78	8432049.18	-6.78	150.82	150.97
308	MPATA (GORGE) AREA	-15.000000	30.000000	36	178105	8284266	178112.31	8284117.05	-7.31	148.95	149.11
2430	MTEFESI	-13.676389	30.463333	36	225586	8466774	225604.21	846626.13	-19.21	147.87	147.87
2434	MTEFESI	-13.676389	30.463333	36	225586	8466774	225604.21	846626.13	-19.21	147.87	147.87
2500	HOFMEYER TOURMALINE	-14.684167	30.847500	36	268190	8375600	268206.17	8375501.97	-16.17	148.03	148.99
1188	SASARE WEST	-13.900000	31.364722	36	323300	8462876	323307.6	8462727.3	-7.60	148.70	148.89
399	FEIRA	-14.986111	30.233889	36	202500	8341500	202502.42	8341352.18	-2.42	147.82	147.82
315	NACHOMBA AND CHIRINDI	-15.250000	30.000000	36	177720	8311949	177727.62	8311801.91	-7.62	147.09	147.29
350	CHILANDI	-14.028056	30.423056	36	221670	8478000	221664.23	8478528.7	5.77	147.13	147.24
1611	CHASWETA	-15.272500	30.272500	36	207023	8311627	207029.71	8311479.98	-6.71	147.02	147.24
3165	MANDA RIVER	-13.595556	30.413889	36	220140	8495663	220157.27	8495517.15	-17.27	145.85	146.87
348	MTEFEZI	-14.136944	30.027778	36	208800	8435600	208802.84	8435453.33	-2.84	146.67	146.70
398	MALOPO	-14.672778	30.094167	36	187000	8376000	187013.49	8375834.07	-13.49	145.93	146.55
2462	CHANKALAMA	-13.602778	30.530000	36	232719	8492800	232728.19	8494853.75	8.19	146.25	146.48
1598	RMC 136	-15.069722	30.068333	36	184000	8332000	183999.53	8331853.79	-0.47	146.21	146.21
1524	MSANZARA RIVER	-13.974167	31.153056	36	300500	8454500	300494.09	8454353.99	5.91	148.01	146.13
1197	CHINDENT LIMENWORKS	-13.782222	31.659722	36	355100	8476100	355115.28	8475994.98	-15.28	145.12	145.92
1220	KAPOKA REEF	-13.872222	31.203056	36	305800	8465800	305811.51	8465674.96	-11.51	145.04	145.50
314	NKASEKA AND YALA HILL	-15.066667	30.100000	36	188202	8332393	188209.22	8332247.95	-7.22	145.05	145.23
1175	CHIKOA	-13.392500	32.035833	36	395600	8519400	395606.74	8519255.06	-6.74	144.94	145.10
1614	MWAMBUTO	-15.330556	30.173611	36	196500	8303000	196510.9	8302855.43	-10.90	144.57	144.98
345	SHANKALAMA PROSPECT	-14.201844	30.070556	36	183800	8428100	183803.25	8427955.07	-3.25	144.93	144.97
3174	KATOTA	-13.246667	30.650000	36	245360	8534533	245352.49	8534388.91	7.51	144.09	144.29
1198	MSORO	-13.590556	31.838056	36	374300	8497400	374294.07	8497255.86	5.93	144.14	144.26
2109	CHIPUNGA	-13.581111	30.424167	36	221247	8497272	221253.22	8497127.88	-6.22	144.12	144.25
386	MURAMFWA	-14.326944	30.318056	36	186600	8415600	186602.27	8415455.83	-2.27	144.17	144.19
387	KAMPOKO RIVER	-14.230556	30.096111	36	187200	8376800	187212.76	8376656.21	-12.76	143.57	144.14
2988	SASARE EAST	-13.906667	30.121944	36	189400	8425000	189383.23	8424856.21	6.77	143.79	143.79
2400	LUANGWA BRIDGE GROUP	-14.883333	30.250000	36	204089	8352896	204095.48	8352752.85	-6.48	143.15	143.30
428	LUANGWA	-14.532222	30.434444	36	223500	8392000	223511.8	8391857.25	-11.80	142.75	143.24
1595	ATLAS MICA	-15.289444	30.299722	36	210000	8308000	210001.07	8307856.84	-1.07	143.16	143.16
1761	MILD 'B' HAPPY B'	-15.289444	30.299722	36	210000	8308000	210001.07	8307856.84	-1.07	143.16	143.16
3155	KAMENA	-13.451389	30.493056	36	228560	8511707	228565.52	8511563.99	-5.52	143.01	143.12
3168	PANSWA HILLS	-13.558333	30.523056	36	231933	8499033	231935.11	8499759.88	-2.11	143.02	143.04
1609	NKASEKA HILL	-15.017778	30.041944	36	181870	8337200	181889.99	8337578.51	-10.99	141.49	142.80
639	CHITUNDULU HILL EAST	-14.230633	30.382222	36	217500	8425300	217501.57	8425157.2	-1.57	142.80	142.81
2502	NKONDA	-14.020278	31.196667	36	305252	8449431	305245.18	8449288.36	6.82	142.64	142.64
2362	THE COMET	-14.833333	30.302778	36	209700	8358500	209711.31	8358357.81	-11.31	142.19	142.80
2587	TABETE	-13.715833	32.470556	36	442741	8483780	442754.65	8483638.07	-13.65	141.93	142.58
2514	TAWETE VILLAGE	-13.715833	32.470556	36	442741	8483780	442754.65	8483638.07	-13.65	141.93	142.58
1192	SASARE	-13.906667	31.389167	36	325954	8462150	325956.45	8462007.69	-3.50	142.31	142.35

Appendix IV-3 (6) Occurrence with No coordinate

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Sheet num	Lat	Long	GSnumber
330	CHAKWALA HILLS	35			1628			
334	CHITINA, P.L.84	35			1329			
335	CHOLWE	35			1628			
336	ZAMBEZI GYPSUM	35			1628			
339	LONG TOM GROUP	35			1628			
342	ISLAND 46	35			1628			
344	LONG TOM	35			1628			
346	NORTHERN STAR MINE	35			1330			
347	WHITE ROCK MICA MINE	35			1330			
349	MAKANGA MINE	35			1330			
351	SERENJE MICA FIELD	35			1330			
356	MKUSHI MUSCOVITE	35			1329			3506
360	MKUSHI MICA	35			1329			
363	CHONDOKA	35			1329			
364	SALUKUBA	35			1628			
365	BUNGA HILL	35			1628			
367	ZAMBEZI VALLEY COAL	35			1628			
370	CHINGOMBE MISSION							
379	KANONA 93 KM SSW				1330			56
391	CHIKUFWE RIVER	35			1330			
396	TRIBUTARY OF THE LUKASASHI	35			1330			
400	KAMPOKO ALLUVIAL	36			1131			671
403	KANONA 102KM SSW	35			1330			58
404	CANTAKWE MICA	35			1330			
405	SERENJE MICA FIELD	35			1330			
406	KANONA 42 KM SSW	35			1330			52
409	LUSITO	35			1628			
421	KANONA 64 KM S	35			1330			53
425	SERENJE MICA	35			1330			
432	LUSALE AREA.	35			1329			
440	MAPONGO	35			1330			54
441	LUKUSASHI VALLEY	35			1330			
445	MUNSHIWEMBA COPPER PROSPECT.	35			1329			
447	MKUSHI CU DEPOSITS.	35			1329			
449	LUKASASHI VALLEY	35			1330			
451	NAMAQUALIMBA HILL	35			1727			
465	SUNRISE AND SUNRISE PROSP.	35			1429			
475	CHITO RIVER	35			1429			
476	MULIMBA RIVER	35			1429			
477	MULIANYANBI RIVER	35			1429			
478	MOMA RIVER	35			1429			
480	MKAIKATA	35			1429			665
508	LUANO VALLEY	35			1429			
509	NUMBU GRAPHITE (NO.1)	35			1429			
510	NUMBU GRAPHITE (NO.3)	35			1429			
518	M.O.66 GRAPHITE	35			1429			
525	KAVIRA							
527	LUBANDA	35			1028			
531	MUSONDA M	35			1128			1m
532	MWENSI	35						
539	LOCALITY 10	35			1129			
552	MIRANDU RIVER	36			1230			46d
555	MWANSI	36			1230			46b
556	CHIWOVO	35			1029			
561	MULUBA	35			1029			
562	MALALI	35			1029			
563	MILLION	35			1029			
565	CHISAMBA	35			1029			
566	CHIMBE	35			1029			
567	MWEWE CONCESSION	35						
568	LUPOMO	35			1029			
570	LUWINGU	35			1029B3			
575	CHEMBE	35			1128			
583	EAST KANSAMBO	35			1128			
597	MUFUSHI RIVER	35			1128			
598	MASHININI RIVER	35			1128			
602	MWALASHI	35			1128			
615	MANSA S AND W	35			1128			
617	KABENDE	35			1128			
623	MIKOMBA NO. 2	35			1128			
625	MWALASHI	35			1128			
626	MAFWESA	35			1128			
629	KASANGWA	35			1128			
630	MULOSHI N.S.&W.	35			1128			
634	LUMANWA	35			1128			
652	CHOMA FLATS	35						
661	SIMIWE'S CAMP	35						
666	MUNGERA RIVER	36						
667	MUTUNGDU PLN.	36						
672	KAMAMANPANGO IRON	35						7
676	MAFINGA PL 73	36						
690	KASAMA 45 KM N	36						
691	MAIN ROAD MBALA-TUNDUMA	36						
698	SWESWE HILL 1 MILE W	36			1033			28?
715	CHISASA NO.22	35						
716	KABOMPO 521	35			1125			521
718	KALUMBILA EAST	35						
750	WALKER	35			1127			
756	CHIMYANI	36			1132			
757	CHULU	36			1132			
758	LUNDAZI MICA	36			1233			
780	MANUNGA RIVER EAST BANK	36			1224			

Appendix IV-3 (6) Occurrence with No coordinate

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Sheet num	Lat	Long	GSnumber
788	CHILALAMAWOMBO	35			1124			821
794	M 59/A EXPL. AREA EL24/1	35			1224			
800	WEST LUNGA SHEET 81	35			1224			817
857	SOLWEZI SE.	35			1226			828
866	KAMALALA DAMBO	35			1226			
889	CHINGOLA 47 MILES WSW	35			1227			443
895	KAFUE ROAD BRIDGE	35			1227			
902	BLOCK 'A'	35			1227			
936	MUSENGA S/G	35			1227			
950	IPAFU 'A' PROS. AREA PL21	35			1227			
962	BLUE JAY	35			1232			
984	MWEKERA EL.18 E.A.	35			1228			
985	PART. OF. NKANA AREA C.2. SG	35			1228			
986	PART OF NKANA AREA C.1.SG	35			1228			
988	ICHIMPE S.G	35			1228			
989	KABAMBO S.G.	35			1228			
990	CHIFUPU EXPL. AREA * E L G	35			1228			
991	CHIFUPU (EL.19)	35			1228			
992	CHINTWANI S.G.	35			1228			
996	ICHIMPE EX. AREA EL36	35			1228			
1004	MWATESHI QUARRY	35			1228			
1009	MAPOSA AREA	35			1228			
1011	KALULUSHI EAST E.A. EL23	35			1228			
1013	FIKONDO S.G.	35			1228			
1015	NDOLA EAST EL 16 E.A.	35			1225			
1020	CHAMBESHI	35			1228			
1022	MAPOSA AREA	35			1228			
1024	P10	36			1231			
1032	P5				1231			
1033	P7				1231			
1043	LUMIMBA				1232			
1051	OLD MINE	36			1232			
1052	HONEY BIRD	35			1232			
1053	DOVE	36			1232			
1060	LUANGWA R E BANK	36			1232			
1062	LUNDAZI	36			1232			
1064	WAZIRAI	36			1232			
1065	QUAIL	36			1232			
1066	CAMP PROSPECT	36			1232			
1067	LUNDAZI 48 KM	36			1232			
1068	LUNDAZI WEST	36			1232			
1069	LUNDAZI	36			1232			
1071	MPIKA 90KM EAST	36			1232			
1072	MUNYAMADZI RIVER NTH BANK	36			1232			
1079	ARIES 11 (SOUTH)	36			1233			
1081	MPIKA 95 MILES ESE	36			1233			
1082	ARIES 11 (NORTH)	36			1233			
1094	CHIMENA EL 29 EXT AREA	35			1324			
1095	DWEJI EX. AREA EL 28	35			1324			
1097	KALENGWA PROSA. (S.PR) PL30	35			1324			
1101	JIJOMBO	35			1324			810
1102	KANGALANGWE VALLEY	35			1324			
1103	M 59/A	35			1324			
1104	MANYINGA U	35			1324			
1105	LULI VALLEY	35			1324			
1112	MWAFWE	35			1324			
1113	MUSONDWEZI PL127	35			1324/5			
1115	KAMWEJI EXPL. AREA EL31/1	35			1324			
1121	AREA 52	35			1324			
1124	CARLYLE 403	35			1324			556p
1127	CHIMENA M96/A	35			1324			811
1141	BLOCK G	35			1327			
1148	WAMBO ZINC	35			1327			
1149	LUMPUMA P.L. 33	35			1327			
1156	BLOCK D	35			1327			
1157	BLOCK N	35			1327			
1158	PANELA E.L. 13							
1164	PANELA P.L. 49	36			12/1332			
1167	CHIPATA AREA	36			1332			
1168	MSANDILE PROS.AREA PL 68	36			1332			
1171	CHIPATA III	36			1332			
1172	KALULU FARM	36			1332			
1173	CHIPATA	36			1332			
1176	CHIPATA AREA	36			1332			
1179	MAKALI REEF 6.8 KM NW	36			1331			
1191	CHIKWENIA	36			1331			
1193	MAKALI NORTH	36			1331			
1194	ULOLA REEF	36			1331			
1195	CHIKUPI							
1199	KALASSIA REEF	36			1331			
1200	NDOMBIE	36			1331			
1201	CHINGOMBI	36			1331			
1202	MAKALI SOUTH	36			1331			
1207	KALUMBA	36			1331			
1213	MAKUWA	36			1331			
1214	NDAZI	36			1331			
1215	KALASSIA							
1216	CHUMWAIE	36			1331			
1218	MALIANGO	36			1331			
1219	CHUWAIE REEF	36			1331			
1223	KADOLA	35			1328			
1225	ZAMBA	35			1328			
1226	BLOCK S							

Appendix IV-3 (6) Occurrence with No coordinate

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Sheet num	Lat	Long	GSnumber
1228	CORNSTALK	35			1328			
1229	MILULU	35			1328			
1232	KAUNDI	35			1328			
1233	BELLA IRON CLAIM	35			1328			
1235	WALAMBA	35			1328			
1240	ROAN ANTELOPE	35			1328			704
1241	CHINTWANI	35			1328			395b
1246	PARTS OF BWANA MKUBWA	35			1328			
1247	MWELUSHI AREA.E.L. 45							
1248	KOLOKO	35			1328			
1254	LUWE	35			1328			
1255	MKANKULA	35			1328			
1256	KAFUNGA FUNGA	35			1328			
1257	KALOKO NO 1 & 2 IRON CLAIMS	35			1328			
1258	BWANA MKUBWA EAST	35			1328			
1264	CHIVALLA	35			1328			
1266	WINNI IRON	35			1328			
1267	IMPIRA	35			1328			
1271	CHONDWE IRON	35			1328			
1275	BLOCK V	35			1328			
1276	MITONDO. E.L.44	35			1328			
1283	TINKERS CLAIM	35			1328			395c
1293	REGINA REEF	35			1326			
1294	SHINGONGA REEF	35			1326			
1295	STAR OF INGWE	35			1326			
1296	SURPRISE (NOS. 1&2)	35			1326			
1298	LUSINGASHI	35			1326			
1303	BONSOR (NOS.1-5)	35			1326			
1304	IPHIGENIA	35			1326			
1359	KAIMBWE GOLD	35			1326			
1363	MAOMBI LINE Z	35			1326			
1364	MO 482B							482B
1384	LOMBA 2	35			1325			787
1385	LOMBA 1	35			1325			798
1386	LOBA	35			1325			786
1387	KARARI	35			1325			797
1388	KANGORA 3	35			1325			790
1389	KANGORA 1	35			1325			789
1390	KANSIMPIRI 1							792
1404	DONGWE UPPER	35			1325			
1410	CHIMBA	35			1325			796
1411	MUKINGE	35			1325			
1413	CARLYLE 401	35			1325			556n
1414	SHINDAMONA	35			1325			
1420	KAIMBWE 2	35			1325			
1425	LUAMBULA AND DONGWE	35			1325			
1426	MBULU BUNENA	35			1325			
1428	LWANBAMUNDA							
1437	DONGWE 556	35			1325			556g
1441	MOTOMA	35			1325			785
1442	KANSHIMPIRI 2	35			1325			791
1444	DONGWE 307	35			1325			556e
1445	CARLYLE 402	35			1325			556o
1446	CARLYLE 400							556m
1448	MANUKA	35			1325			
1450	CHITAMPA 2	35			1325			
1455	LUNGA E 308	35			1325			
1457	KAKAROBERT W							763
1458	LALAFUTA 4							771
1459	YANYAUKI 1							758
1460	LWAMAKAMBI 3							761
1461	KAMWENGO IRON CLAIMS							
1462	LUNYACHI RIVER 1.4 KM E							
1463	NYASDA RIVER W							
1464	LALAFUTA 5							764
1465	KABAKABWATA							765
1466	YANYAUKI 2							759
1467	KILALAMIROMBE 4							769
1468	KILALAMIROMBE 2							767
1469	KILALAMIROMBE 3							766
1470	KALALAMIROMBE 1							768
1471	LALAFUTA 6							757
1472	LWAMAKAMBI 4							760
1473	CHINGOROGORO							770
1475	SIAMENU	35			1726			
1477	CHABOLA	35			1726			
1478	GUSUKU	35			1726			
1480	KANKURI	35			1726			
1481	KANYOMA	35			1726			
1483	TAMBANA	35			1726			
1484	BUYU	35			1726			
1487	MAYLOS	35			1726			
1488	JEANETTA	35			17726			
1509	MACHILA	35			1726			
1510	MUTALA	35			1726			
1519	MAKANDA	35			1726			
1523	MUNYUMBWE	35			1627			
1527	MUNYUMBWE	35			1627			
1528	MUNITIONS	35			1627			
1529	JAMBO	35			1627			
1530	BEBIYA	35			1627			
1531	MARDRICK II	35			1627			
1532	MARDRICK I	35			1628			

Appendix IV-3 (6) Occurrence with No coordinate

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Sheet num	Lat	Long	GSnumber
1534	THE NORTHERN	35			1627			
1535	LUTEMBE	35			1627			
1537	ANDRIES BULT	35			1627			
1538	NJOLA	35			1627			
1540	LUBABA MISSION EMBAYMENT	35			1627			
1541	BATOKA P.L 120	35			1627			
1542	CHIFUMPU	35			1627			
1543	CHILAMA HILL				1628			
1544	KATONDA	35			1627			
1548	PEMBA MANGANESE	35			1627			320
1549	PEMBA MINES	35			1627			319
1552	SIAMUCHILIBA	35			1627			
1553	MLENGWA	35			1627			
1558	MUKONI	35			1725			
1559	SENKOBO LOCATIONS	35			1725			
1561	TARA AREA	35			1626			
1563	CHAMOKA	35			1626			
1565	MEANGA	35			1626			
1566	BILILI				1626			
1567	MUNYEKE	35			1626			
1569	LUNGUNYA	35			1626			
1571	NAMATA RIDGE							318
1572	COPPER LOCUST LOCATIONS							
1573	WINNIE	35			1626			
1574	KANKASOMA							347
1576	MUTANYA							
1577	MUSHOBO							
1578	MUMBWA COPPER	35						198
1579	MA 19 /40							681
1581	CHICK							195
1582	MUTANYA							193
1583	CHAWEMBA							
1585	SHAKAFUMA							
1586	SHIMWATE							348
1587	1625 CK 1	35						
1588	1625 CK2	35						
1589	KATABA STATION	35						
1590	1624 DK 2	35						
1591	LUANGWA BERYL	36			1530			
1592	NYANTAMBWE	36			1530			
1605	KOLIMANGAMBE	36			1530			
1615	MUGANDA VILLAGE 2 KM							
1616	KAJEFU 3							756
1617	KAJEFU 2							755
1618	KATAKA							747
1619	CHAMBOKWE							748
1620	KAMACHOPORA							749
1621	SHINKONKOWA 2							751
1622	SWISHI 1							750
1623	SHINKONKOWA 3							753
1624	SHINKONKOWA 1							752
1625	LALAFUTA P. L. 108	35						
1626	KAJEFU 1							754
1627	WESTERN SUN							745
1630	NAKAMBALA	35			1527			312C
1631	NAMBUTALI	35			1527			
1632	KILOMBWA-MASUMA	35			1527			
1636	LEWIS	35			1527			196
1637	NICKEL "Y" ANOMALY	35			1527			
1640	LUBOMBO AREA P.L. 61	35			1527			
1643	LUSAKA EAST	35			1528			
1644	LILAYI				1528			
1645	CHUNGA DAMBO	35			1528			
1646	ANCHORS WEIGHED	35			1528			
1650	MUNALI HILLS NICKEL	35			1528			634
1651	MUNALI HILLS COPPER	35			1528			
1652	INPUT ANOM 46	35			1527			
1659	BISMUTHIA	35			1528			
1661	KABANGWE DAMBO	35			1528			
1664	ALLIES MINE	35			1528			
1665	EMG 4	35			1528			598
1666	UMFONDSI	35			1528			273
1670	NEGA-NEGA	35			1528			
1673	FOXDALE CLAY	35			1528			
1676	CHIWENUPWENU	35			1528			
1684	KANAKANTAPA	35			1528			600
1686	CAIRN DHU GROUP	35			1528			
1697	CHINDA PROSPECT CHUNDA	35			1727			
1717	JOHN	35			1727			
1736	ATMA HILL 4	35			1727			
1747	ZEZE	35			1727			
1752	KABANGA 14 KM S.E	35			1727			
1760	MUMBWA COPPER	35						197
1768	RUFUNSA	35			1528			
1771	CHAKWENGA SOUTH	35			1529			
1772	MUSENSESHI	35			1529			
1774	CHINKWILO	35			1529			
1775	PAULWI EMERALD	35			1529			
1777	JACKS LUCK	35			1529			
1785	CE 701	35			1529			
1802	MITABA RIVER	35			1529			609
1811	JESSIE TIN	35			1529			
1816	NENINGOMBE WEST	35			1529			

Appendix IV-3 (6) Occurrence with No coordinate

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Sheet num	Lat	Long	GSnumber
1821	CHUBULUMA RIVER	35			1529			620
1825	KALOBANKALA	35			1529			617
1826	BLOCK DA 9-12	35			1529			616
1827	RUFUNSA	35			1529			
1829	CHAKWENGA MICA	35			1529			
1840	CHAKWENGWA RIVER	35			1529			
1841	KARROO BOUNDARY FAULT	35			1529			
1842	CHEOWA/RUNFUNSA PL58	35			1529			185E
1852	KALA MABWE	35			1529			
1854	MATALA 27 KM SW	35			1527			230
1856	KARROO	35			1529			
1857	NYALUKANZA	35			1529			
1860	REX NORTH	35			1526			
1862	K 8A	35			1526			
1865	KAPAMA	35			1526			
1866	NAMWALA SE	35			1526			
1868	SONKWE NORTH	35			1526			
1872	LUTALE EAST	35			1526			
1873	LUTALE NORTH	35			1526			
1874	KATCHEREKA	35			1526			
1875	KATOKA	35			1526			
1877	CHIBODIO	35			1526			
1878	LUTALE SOUTH	35			1526			
1880	NYAMASENGURA	35			1526			
1881	K 10	35			1526			
1882	K 8C	35			1526			
1883	K 8B	35			1526			
1888	WALDRON MAGNESITE	35			1528			
1889	TEAGLES-ASBESTOS	35			1528			
1897	LEVIATHAN	35			1528			
1901	CHIRUNDU NORTH	35			1528			
1902	MUSOKOTO	35			1528			
1904	KOODOO IRON	35			1528			
1906	MORTON LIMEWORKS	35			1528			3134
1916	CHIPONGWE	35			1528			
1919	KALILO	35			1528			
1920	HOMEWARD BOUND	35			1528			
1922	MUNGINDI WEST	35			1528			
1926	LUCKY JIM	35			1528			597
1928	21 ML PEG GREAT EAST ROAD	35			1528			
1930	CHONGWE SOUTH	35			1528			602
1932	KAFUE-GUANO	35			1528			924
1933	WEINAND COPPER	35			1528			
1941	YOUNG AUSTRALIA	35			1528			
1949	NEGA NEGA (D)	35			1528			312D
1957	CHALALOBUKA	0			1528			
1958	MBALANGWE BLOCK 2	35			1528			589
1960	CHONGWE NORTH	35			1528			601
1961	MBALANGWE BLOCK 3	35			1528			587
1962	POLLARDS SCHEELITE	35			1528			
1966	KAFUE 31 KM ESE	35			1528			276
1968	MBALANWE BLOCK 5	35			1528			585
1972	EMG 2	35			1528			592
1973	BLOCK A	35			1528			593
1980	CHONGWE EAST	35			1528			255
1984	KAYEMBA BLOCK H5	35			1528			
1985	INPUT ANOM 14B	35			1528			
1986	INPUT ANOM 16	35			1528			
1991	MBALANGWE BLOCK 4	35			1528			586
1992	MBALANGWE BLOCK 1	35			1528			588
1993	BLOCK DA 16	35			1528			599
1996	KALEA	35			1528			283
1997	RMC 160	35			1528			293
1999	RMC 214	35			1528			282
2001	NABWALE 10-15 KM E	35			1528			285
2008	RMC 210	35			1528			
2009	MGUGU	35			1528			
2011	EMG 1	35			1528			591
2015	PAMBA	35			1527			
2016	NAGAIBWA	35			1527			
2017	SHIMYOKA	35			1527			
2018	SANJE	35			1527			238
2022	CHINDA	35			1527			
2023	MATALA 29 KM SW	35			1527			228
2027	NAMABEZI	35			1527			
2028	NENJE	35			1527			
2029	LUCKY SPOT	35			1527			
2030	CHANOBIE FE	35			1527			
2033	CHIPAPA	35			1527			698
2034	BUTINTI	35			1527			
2035	SHADURECK PROSPECT	35			1527			
2036	M'VUNGA & M'QUAMBA	35			1527			231
2040	GEM	35			1527			
2041	KALAYA MICA	35			1527			
2045	HENRY	35						211
2046	M'BOROMA	35						212
2047	RMC 174	35						209
2049	MUMBWA	35						206
2050	JACK PROSPECT	35			1528			
2051	SHIWEZA GOSSAN	35			1527			204
2052	MUMBWA 21 KM S	35			1527			226
2053	MARIE	35			1527			
2059	LUSAKA	35			1528			236

Appendix IV-3 (6) Occurrence with No coordinate

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Sheet num	Lat	Long	GSnumber
2062	MAZABUKA KALEYA PL65	35			1527			
2064	CHETA	35			1528			
2065	MUTOMBE	35			1528			
2066	LUSAKA	35			1528			234
2068	HEREFORD PROSPECT	35			1527			
2070	INPUT ANOM 46	35			1527			
2074	SE 1	35			1527			
2077	MUELA	35			1527			
2078	SHASHIKAULA SOUTH	35			1527			
2079	MAZABUKA	35			1527			312B
2080	SHASHIKAULA NORTH	35			1527			
2082	MUMBWA 10 KM SE	35			1527			205
2083	CHISAKA	35			1527			207
2084	CHOSA PROSPECT	35			1527			
2085	TUNDWE HILL	35			1527			700
2086	SE 2	35			1527			
2087	MAZABUKA 12 KM W & 22 KM ESE	35			1527			311
2088	PRINSWITH LEAD	35			1527			
2091	NAKASAMBO	35			1527			208
2092	NAGASAKA	35			1527			
2093	KWANAMALENDE	35			1527			
2095	PARKE	35			1527			313
2096	LUIRA GOLD AREA 'A'	35			1528			
2097	BUTINTI EAST	35			1527			
2098	NAMBALA MISSION	35			1527			
2099	NAMBALA	35			1527			227
2100	CHIBILA SOUTH	35			1527			
2101	CHIBILA NORTH	35			1527			
2102	MUSEFU	35			1527			
2103	MAZABUKA LIMESTONE	35			1527			
2108	IRON DUKE							
2113	SEBEMBERE	35						
2114	CHONDA MOLITON							
2116	MUNSONSHI							703
2117	LUWANIKA							
2118	CAMARNOR E.L 2							
2120	CHITOBO							
2127	MO 356							356
2129	KALOB							
2131	MWOMBOSHI RIVER NORTH							
2140	BROKEN HILL CLAY							
2144	CHILIBALULU							
2146	CHIPEPO							690
2147	KANKOMBWA COPPER							688
2151	KATU							689
2153	CHANGKWASI							
2156	CHAPULA							
2162	MWOMBOSHI LEAD							683
2166	PROTEA							
2167	TOWEL							
2168	RUDOLF A							
2169	RUDOLF B							
2176	PETAUKE SOUTH AND WEST							
2177	LUKALI NO 3							
2180	CHILOMBO							
2181	KAKONKWESI							
2194	CHOWA BLOCK							
2195	CHIBANGA& AFRICA							667
2199	CHISAMBA BLOCKS 1,2							693
2218	KARENDA B							743
2219	KAMINGOMBE							
2220	MERRY							
2221	REEVE 1A							
2223	KAFUE RIVER							
2227	K1							
2228	KAMFUPA							
2229	KALUNGA							
2230	NYANGA							719
2231	CHIWEMBA STREAM							
2232	LUPEMBA STREAM							
2233	FINSA							
2234	ANTRIM							
2235	ELLMER							
2250	MAURICE GIFFORD							
2251	TRUE BLUE							
2253	CHIKUSU							
2254	KABUL							
2255	K5							
2256	K0B							
2257	K 6A							
2259	K2							
2260	NORTH BANK OF KAFUE							
2262	K4							
2263	K3							
2264	10 MILE GOSSAN							
2268	K 6C							
2271	MV 9/200							728
2274	MUMBWA 70 KM W							
2276	BUSANGO							
2279	K9							
2285	KATONGA 1-7							
2288	NORTH STAR							
2289	COLONEL							

Appendix IV-3 (6) Occurrence with No coordinate

Occ number	Occurrence name	UTMZone	UTMEast	UTMNorth	Sheet num	Lat	Long	GSnumber
2290	BLUE JACKET							
2296	TORKA							
2300	ANOMALY MB 18 /236E							
2304	MUMBWA 40 KM WNW							
2308	KAKUYU							
2315	MA 5/88							726
2316	CRYSTAL JACKET							
2317	MUMBWA-KAFUE PONTOON							730
2318	MD 3/0							727
2324	LOU LOU (LULU)							
2325	MU 8/320							729
2327	FIND NO 10.							
2330	TEN-MILE GOSSAN							
2364	KAFUE							
2366	KAKAROBERT E							762
2377	LUNDAZI P11		36					
2443	IBANGWE		36					
2445	BALANDE		36					
2446	MUTUWANZOVU HILL		36					
2447	KAPASA HILL		36					
2448	CHANJE		36					
2449	CHOMBWA AREA		35					
2450	NANGOMA - KASALU AREA		35					
2451	SANKULA		35					
2452	ZIMBA		35					
2463	CHALATA							
2652	MUMBWA COPPER		36					
2654	NYEMBI 327		35					
2655	MOGOLOP		35					
2656	MANZAIA RIVER		35					
2657	KALA MABWE		35					
2695	KANAKANTAPA		35		1528			
3181	KATESHI							

Appendix IV-4 Home Page of the GSD Site

Geological Survey Department of Zambia - Opera

ファイル(E) 編集(E) 表示(V) ブックマーク(B) ウィジェット(G) ツール(T) ヘルプ(H)

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Tuesday 2 October, 2007

Ministry of Mines and Mineral Development
GEOLOGICAL SURVEY DEPARTMENT
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- TO UNDERTAKE GEOLOGICAL MAPPING, PROSPECTING AND EXPLORATION ON BEHALF OF THE GOVERNMENT OF REPUBLIC OF ZAMBIA.
- A REPOSITORY OF ALL NATIONAL DATA ON GEOLOGY, MINERALS AND MINING.

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- Regional mapping
- Economic section
- Geophysics
- Geochemistry
- Laboratories
- Technical Records
- Cartography

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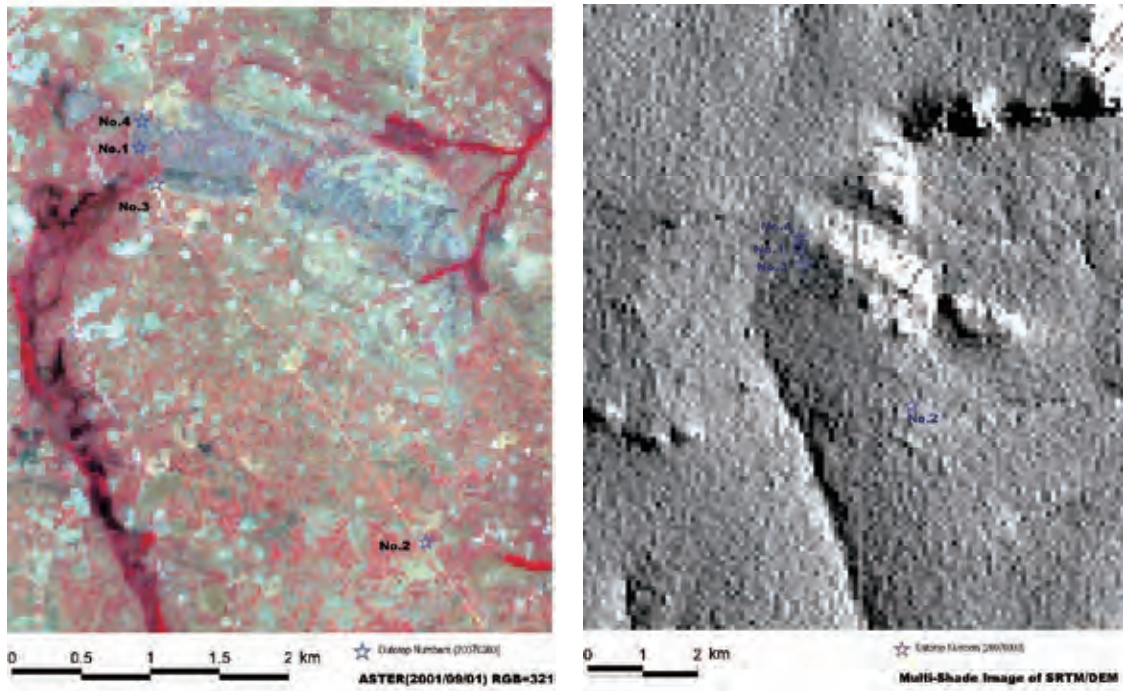
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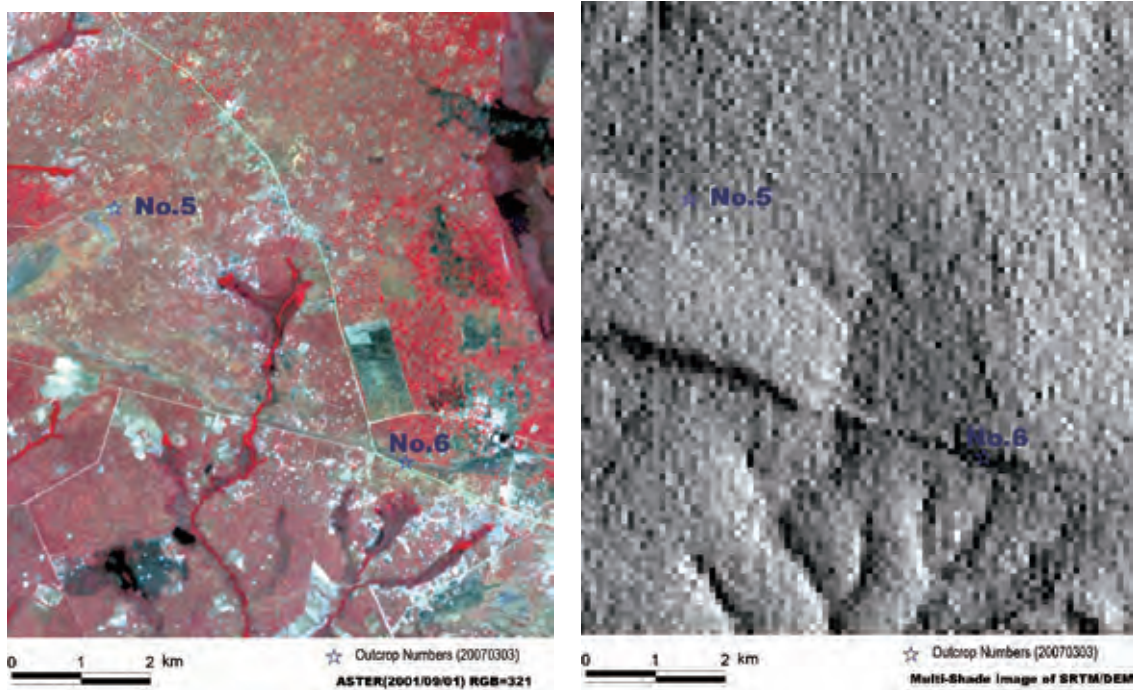
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Appendix V-1 ASTER and Multi-Shade Imagery



Locations of outcrop No.1 to No.4



Locations of outcrop No.5 and No.6

Appendix V-2 Photographs of Preliminary Survey



Outcrop No. 1 (pale pink massive quartzite)

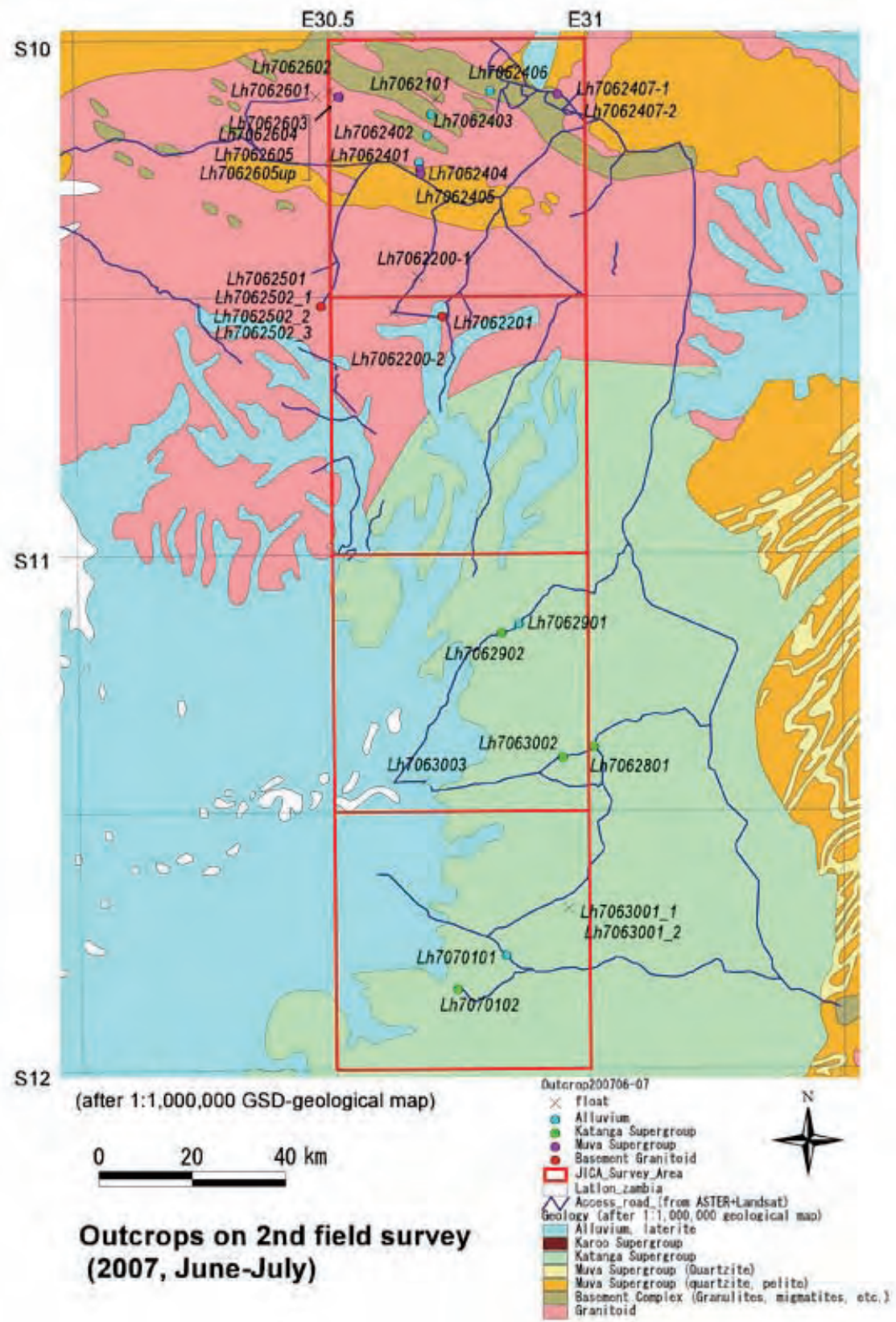


Outcrop No. 3

Quartzite outcrop in a river (left), and coarse quartzite showing bedding (right)



Outcrop No. 4 Quartzite scatters in a scale of 1.5m x 2m on the southern slope.



Appendix V-3 Location of Outcrops at the Reconnaissance Survey

Appendix V-4 Field Observation Sheet at the Reconnaissance Survey

Field Observation Sheet (2007.06.21-07.01)

Outcrop No.	Location	Coordinates N E	Elevation (m)	Formation (intrusive)	Rock facies				Strike-slip at the dip (0-300) (N+S-)	Note		
					Formation (intrusive)	Rock name	Color	Size of phenocryst - fragment (mm)			Crystalli- nity	Hard- ness
Lh7062101	Lukulu river	8881026 248129		fl	Qzite	wt	<1	hol	m	massive - crystalline qz	80m from Lukulu river	
Lh7062200-1	Mukanga river	8942088 248067		fl?	Granitoid	gr-lt brwn	1-2	hol	h	boulder (3x2.5m) at riverside		
Lh7062200-2	Chakho river	8955098 248854		fl?	Granitoid	gr-ll brwn	1-2	hol	h	boulder (1.5x0.7m) at riverside		
Lh7062201	Mukanga river	8934108 250369		Bm	Granitoid	grv	1-2	hol	h	QzPl(KF-271) mafic:30%	10cm epidote rich (weathered); pit-1, 3m in depth pit-2, 4.3m in depth	*
Lh7062401	Mwongobwa village	8972603 245539		Q	laterite	slv brwn	<4cm		s	silty		
Lh7062402	Mponwa village	8973016 247073		Q	laterite	slv brwn	<4cm		m-h	irc. quartz breccia (<4cm) at 2.8m		
Lh7062403	Mwamwasi village	8977490 247894		Q	laterite	slv brwn	<1		s	silty		
Lh7062404	near Mukanga Luova	8965730 246587		Mv	Qzite	lt brwn-pink	<1		m-h	clear bedding, sub-rounded qz		
Lh7062405	near Mukanga Luova	8964346 245725		Mv	Qzite	lt brwn-pink	<0.5		m-h	clear bedding, sub-rounded qz		
Lh7062406	Cocimba village	8962942 260630		Op	igneous rock	lt brwn	<2		s	irc. pagmatite ctz? (<2cm)		
Lh7062407-1	near Chikumbundu	8952002 275003		Mv	Qzite	wt-lt pink	<1		m	partly Fe-rust (<1mm) brown and (2mm)		
Lh7062407-2	near Chikumbundu	8952002 275003		Mv	Qzite	wt	<1.5		m	sandy		
Lh7062501	Lufamansa river	8930288 224392		Bm	Granitoid	gr-ll brwn	<1	hol	h	Kf vein (<1.5cm); DPX=163 mafic:30%		
Lh7062502-1	Lufamansa river	8930788 224792		Bm	Granitoid	gr-ll brwn	1-2	hol	h	Kf vein (2mm); X4, Qz < 1.5 mafic:30%		
Lh7062502-2	Lufamansa river	8930288 224792		Bm	pegmatite	wt-ll slv	max 3cm		m-h	coarse massive qz, feldspar (3cm)		
Lh7062502-3	Lufamansa river	8930288 224792		Bm	Qz	slv-ll grv	<1.5cm		m-h	qz breccia rich (<1.5cm, similar to ignimbrite)		
Lh7062601	Mangani west	8962400 226100		fl	Qzite	lt brwn-red	<0.5		m	fine grained biotite rich (<0.5mm)		
Lh7062602	Kapulu river	8981446 227818		fl	diabase?	dk grey	1-2	partly	m-h	massive des-grm mafic; mt dominant		
Lh7062603	Kapulu river	8981376 225192		fl	Qzite	grv wt	<1		h	mt at conc. Banded / 2mm, biotite rich		
Lh7062604	Kapulu river	8981338 228179		Mv	Gabbro	grv-wt	<1		h	massive		
Lh7062605	Kapulu river	8981348 228126		Mv	Qzite	lt grv	<1		h	banded, grey stg folded structure		
Lh7062605a	Kapulu river	8981348 228126		Mv	Qzite	lt grv	<1		h	oriented hard fibe shape phob?		
Lh7062601	Lubelaha river	8747334 238280		Kig?	Ss-Qzite	lt brwn-grv	<1		m-h	bedding clear, crack (NE40)		
Lh7062801	Tonole east	8768382 268819	1213	Q	Silt	grv			s	retorted for brick		
Lh7062902	Tonole village	8766270 263077	1210	Kig?	Qzite	slv-wt	<0.5		m	bottom of waterfall at 18m		
Lh7063001-1	Mwanga school	8707080 277545	1280	fl	Qzite	wt			h	at 14m in depth of waterfall crystalline qz		
Lh7063001-2	Gabasa river	8707090 277545	1290	fl	crystal qz	milky wt			h	from the outcrop of Obowa river (3m)		
Lh7063002	Kapanga river	8739486 276247	1236	Kig?	Qzite	pinkish wt	<2		m-h	bedding, grey mark clear		
Lh7063003	Lungila river	8734286 246790	1182	fl	Qzite	pinkish wt			m	bedding clear		
Lh7073101	Karalaba river	8956384 234170	1184	Q	silty diorite	slv brwn			m	sandy, fine grained or rich		
Lh7073102	Lumilala river	8884492 252765	1184	Kig?	Silt	lt grv			s	fine gr? rich, tuffaceous		

Appendix V-5 Photographs of the Reconnaissance Survey

1. Outcrops



Photo 1 Granitic rock (Lh7062201)

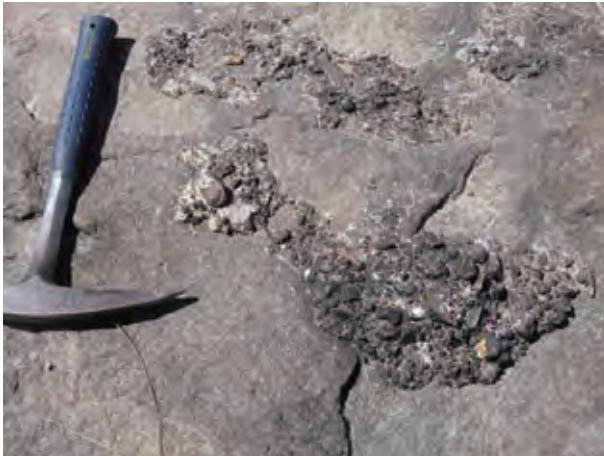


Photo 2 Granite and conglomerate
(Lh7062502_1 and _3)



Photo 3 Quartzite in the northeast of 1030NE
(Lh7062407_1)



Photo 4 Quartzite in the central of 1030NE
(Lh7062404)



Photo 5 Quartzite in the northwest of 1030NE
(Lh7062605)



Photo 6 Quartzite in the east of 1130NE
(Lh7062801)

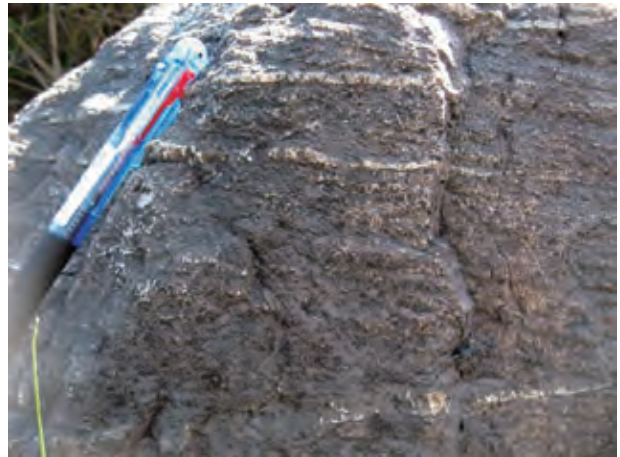


Photo 7 Quartz band in quartzite in the east
of 1130NE (Lh7063002)



Photo 8 Siltstone in the south of 1030SE
(Lh7070102)



Photo 9 Pit-3 (3m in depth)
(Lh7062403)

2. Survey Scenery



Photo 10 School in the Munkonge village
for a base camp



Photo 11 Pitting

Appendix V-6 Field Observation Sheet

Geologist	Outcrop No.	Sample No.	Rock name	Crystallinity	Texture of Qz v.	Amount	Fabric
I: Inoue	L1-***	G1-***	Basalt	gl: glassy (hem: hemicrystalline)	chalc: chalcedonic band: banded	a: abundant m: common	massive foliation
H: Hirose	Lh-***	Xh-***	Andesite	hem 1: crystal < glass	crust: crustified	s: small amount	lineation
D: Dokowe	Ld-***	Xd-***	Dacite	hem 2: crystal = glass	sym-b: symmetrical banded	t: trace/rare	granoblastic
M: Mwale	Lm-***	Xm-***	Rhyolite	hem 3: crystal > glass	conc-b: concentric banded		porphyroblastic (or poikiloblastic, helicitic)
G: Gerard	Lg-***	Xg-***	Propylite	apha: aphanitic (microcrystalline)	cock: cockade		porphyroclastic
			Tuff	po: porphyritic (glassy groundmass)	ring: ring		augen
			Breccia	hol-po: holocrystalline-porphyrific	coll: colloform		cataclastic
			Welded	hol-gr: holocrystalline-granular	reni: reniform		migmatitic (stromatic)
			Pumiceous		comb: comby		migmatitic (nebulite)
			Vol-cl: Volcaniclastic rock		stwk: stockwork		migmatitic (schollen)
			(G: Granitic rock)		bre: brecciated		migmatitic (agmatic)
			Po: Porphyry		oyst: oyster shell		
			Gr: granite		equigr: equigranular		
			Gd: Granodiorite		mosaic: mosaic		
			Tn: Tonalite		druse: druse		
			Sy: Syenite				
			Qz-mz: Quartz monzonite				
			Mz: Monzonite				
			Qz-mdi: Quartz monzodiorite				
			Mdi: Monzodiorite				
			Qz-di: Quartz diorite				
			Di: Diorite				
			(Sed-r: Sedimentary rock)				
			Sh: Shale				
			Siltstone				
			Ss: Sandstone				
			Cgl: Conglomerate				
			Qzite: Quartzite				
			Sil-r: Silicified rock				
			Alt-r: Altered rock				
			Hor: Hornfels				
			Sla: Slate				
			Sch: Schist				
			Amp: Amphibolite				
			Gne: Gneiss				
			Granu: Granite				
			Myl: Mylonite				
			Cat: Cataclasite				
			Mig-stro: Migmatite (stromatic)				
			Mig-meb: Migmatite (nebulite)				
			Mig-sci: Migmatite (schollen)				
			Mig-agm: Migmatite (agmatic)				
			Mig: Migmatite (others)				

Location	C: Cerro	Q: Quebrada
Labo. Work	G: Geochemical analysis	
O: Ore Assay	D: Dating	
X: X-ray diffraction analysis	T: Thin section	
P: Polished section	F: Fluid inclusion	
H: Hand specimen		

Formation/Intrusive	Q: Quaternary	T: Tertiary	Pliocene	Miocene	Oligocene	Eocene	Paleocene	Cretaceous	Jurassic	Triassic	Paleozoic	Permian	Carboniferous	Katanga supergroup	Muva supergroup	Basement granitoid	s: sedimentary rock	v: volcanic rock	i: intrusive rock
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Foliation	bed: bedding plane	lam: lamina	cos: slaty cleavage	crn: crenulation cleavage	sch: schistosity	gns: gneissic (compositional banding)	myl: mylonite	C/S: C'-type shear band cleavage	obl: oblique foliation
Lineation	min: mineral lineation	stre: stretching lineation	intsc: intersection lineation	bdn: boudin	mul: mullion	rod: rodding	slk: slickenside		
Sense of shear deformation	dex: dextral	sin: sinistral							

Appendix V-6 Field Observayion Sheet 1/12

1/100,000 Sheet	Outcrop No.	Location	Coordinate (UTM/ARCI 950) N E	Elevation (m)	Rock facies										strike-slip strike (0-360) dip (N+S-)	Notes (size, remarkable structure, OPK, etc.)	Handspecimen
					1) Formation/Intrusive	2) Rock name	3) Color	4) Size of phenocryst /clast (mm)	5) Crystallinity	6) Hardness	7) Porosity	8) Shape of grains	9) Sorting of grains	Others (size, OPK, etc.)			
1000NE	L17062101	Lukulu river	8881314 249111	2491	fit	Qtzite	wt									50m from Likulu river pit-1, 3m in depth	
1000NE	L17062401	Mwanguya village	8872550 245321	2453	Q	sand	ylw brwn	<4cm								inc. Qtzite breccia (<4cm) at 2.8m	
1000NE	L17062402	Maomua village	8872304 247055	2470	Q	sand	ylw brwn									pit-2, 4.3m in depth	
1000NE	L17062403	Mponwa-north village	8871778 247876	2478	Q	sand	ylw brwn									pit-3, 3m in depth	
1000NE	L17062404	near Mubanga Lupya	8866018 245669	2456	Qp	Qtzite	lt brwn-pink	<1								partly wt. colored fine clay	
1000NE	L17062405	Mangani west	8862688 227082	2270	fit	Basalt dyke	dk grn-gry	<0.5									
1000NE	L17062602	Kapulu river	8881734 227785	2277	fit	Basalt dyke	dk grn-gry	1-2									
1000NE	L17062604	Kapulu river	8881626 228161	2281	Bm	Qtzite	grn-wt	<1									
1000NE	L17062605	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062606	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062607	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062608	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062609	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062610	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062611	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062612	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062613	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062614	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062615	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062616	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062617	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062618	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062619	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062620	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062621	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062622	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062623	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062624	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062625	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062626	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062627	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062628	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062629	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062630	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062631	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062632	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062633	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062634	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062635	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062636	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062637	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062638	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062639	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062640	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062641	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062642	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062643	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062644	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062645	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062646	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062647	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062648	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062649	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062650	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062651	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062652	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062653	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062654	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062655	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062656	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062657	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062658	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062659	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062660	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062661	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062662	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062663	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062664	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062665	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062666	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062667	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062668	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062669	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062670	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062671	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062672	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062673	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062674	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062675	Kapulu river	8881636 228108	2281	Bm	Qtzite	lt gry	<1									
1000NE	L17062676	Kapulu river	88816														

Appendix V-6 Field Observayion Sheet 3/12

1/100000 Sheet	Outcrop No.	Location	Coordinate (UTM/ARC 950) N E	Elevation (m)	Rock facies										Handspecimen			
					1) Formation/Intrusive	2) Rock name	3) Color	4) Size of phenocryst /clast (mm)	5) Crystallinity	6) Hardness	7) Porosity	8) Shape of grains	9) Sorting of grains	Others (size, OPK, etc.)		strike-slip (0-360)	dip (N+S-)	
1000NE	Lh7091409		8881678	228289	1312 Bn	Qtzite bed	lt. gry	<1	hol-po	h	s				Bedding	90	-75	
1000NE	Lh7091804	Samba	8892682	252780	1344 Bn	Granitoid	lt. gry	<2.5mm(kf)	hol-po	h	s				Foliation	295		kf foliation
1000NE	Lh7091805	Samba	8892252	252141	1334 Bn	Granitoid	lt. gry	<5(kf)	hol-po	h	s				Foliation	295		kf segregation, kf foliation
1000NE	Lh7091806	Samba	8891913	251974	1333 Bn	Qtzite bed	lt. gry	<1	hol-po	h	s				Bedding	310	-70	clear bedding
1000NE	Lh7091807	Samba	8891678	251914	1332 Bn	Qtzite msv	gry	<1	hol-po	h	s				Bedding	288	90	fracture NE-20, E70-80
1000NE	Lh7091809	Chinongono	8889596	251744	1315 Bn	Qtzite msv	gry	<1	hol-po	h	s				Bedding	288	90	"muscovite eyes"
1000NE	Lh7091810	Chinongono	8889344	251676	1315 Bn	Qtzite bed	lt. yellow	<1	hol-po	h	s				Bedding	288	90	
1000NE	Lh7091811	Chinongono	8889096	252017	1314 Bn	Qtzite msv	lt. gry	<1	hol-po	h	s				Bedding	280	90	
1000NE	Lh7091812	Chinongono	8888455	252811	1305 Bn	Qtzite bed	lt. gry	<1	hol-po	h	s				Bedding	286	-82	
1000NE	Lh7092007	Mulola	8887199	252119	1303 Bn	Qtzite bed	gry	<1	hol-po	h	s				Bedding	292	90	Lh7092002
1000NE	Lh7092008	Chinongono	8888215	252869	1308 Bn	Qtzite bed	lt. ylv-gry	<1	hol-po	h	s				Bedding	290	90	Pegmatite<1cm qz
1000NE	Lh7092009	Chinongono	8888118	253103	1297 Bn	Qtzite bed	lt. ylv-gry	<1	hol-po	h	s				Bedding	290	90	very thin qz layer (<2mm)
1000NE	Lh7100501		8866491	235321	1399 Mp	Qtzite bed	lt. gry	medium>>c	hol-po	h	s				Bedding	282	-22	bedding structure (shale/EH-NE75/20-24S)
1000NE	No.5		8897564	264421		Shale ferruginous rock	white-light gray	oarse										
1000NE	No.5		8897564	264421			light yellow	oarse										
1000NE	No.6		8883852	268641		Qtzite	white-light gray	oarse										
1000NE	Lh7092406	Chimba village	8882930	260612	int.	Pegmatite	lt. brwn	medium>>c										tabular big boulder (max 1.5x2m)
1000NE	Lh7092407-1	near Chibambalundi	8882290	274980	Mp	Qtzite	wt	<2	hol-po	s	m				Bedding	330	27	Weathered rock contains pegmatite qtz
1000NE	Lh7092407-2	near Chibambalundi	8882290	274980	Mp	Qtzite	wt	<1.5	hol-po	m	m				Bedding	330	27	sub-rounded massive, sub-rounded
1000NE	Lh7091801		8866641	279907	1249 Pmp	Qtzite	Grey	Alpha	hol	h	none				Qtz. vein	324	90	0.8X0.8m insitu float
1000NE	Lh7091802		8866218	279879	1246 Pmp	Qtz. Vein	white	Alpha	hol-gr	h	none				Qtz. vein	300	90	width: >10m, barren Qtz. vein
1000NE	Lh7091803		8866734	279749	1241 Pmp	Qtz. Vein	white	Alpha	hol-gr	h	none				Qtz. vein	300	90	
1000NE	Lh7091804		8874159	278799	1249 Pmp	Qtzite	lt. gry	Alpha	hol	h	none				Bedding	280	-70	under the Bridge(Kasama-Luwingu road)
1000NE	Lh7091805	Lukulu River	8874159	278799	1249 Pmp	Basic dyke	lt. gry	Alpha	hol	h	none				Bedding	280	-70	
1000NE	Lh7091902	Lukulu River	8875608	27001	1232 Bn	Granitoid	whitish gry	1-4	hol	h	none				Joint	295	-78	
1000NE	Lh7091903	Lukulu River	8876831	277083	1234 Bn	Granitoid	whitish gry	1-4	hol	h	none				Joint	76	74	
1000NE	Lh7091904	Lukulu River	8877948	276931	1243 Pmp	Qtzite	white/pink	fine	hol	h	none				Joint	76	74	
1000NE	Lh7091905	Chipanje	8879409	278103	1243 Pmp	Qtzite	gry	fine	hol	h	none				Joint	76	74	
1000NE	Lh7092001	Luumbe River	8877822	274780	1230 Bn	Granitoid	whitish gry	1-4	hol	h	none				Joint	284	90	85m down stream from 1030B251
1000NE	Lh7092002	Luumbe River	8878592	273448	1241 Pmp	Breccia	grey(weathers)	various	hol-po	h	none				Foliation	296	-60	Highly weathered outcrop
1000NE	Lh7092003	Luumbe River	8878972	273330	1230 Pmp	Breccia	grey(weathers)	various	hol-po	h	none				Foliation	296	-60	Highly weathered outcrop(Contact Pmp/Bn)
1000NE	Lh7092003(2)	Luumbe River	8878972	273330	1230 Pmp	Breccia	grey(weathers)	various	hol-po	h	none				Foliation	296	-60	Highly weathered outcrop(Contact Pmp/Bn)
1000NE	Lh7092004	Luumbe River	8880377	272189	1240 Mt	Qtzite(Brecciate?)	pink and lt. gry	fine	hol-gr	m-h	none				Joint	316	-77	
1000NE	Lh7092005	Luumbe River	8880372	272189	1240 Mt	Qtzite	pink and lt. gry	fine	hol-gr	m-h	none				Joint	292	90	Contact between quartzite and granitoids
1000NE	Lh7092006	Luumbe River	8880522	271910	1238 Pmp	Qtzite	gry	fine	hol-gr	m-h	none				Bedded	282	90	Present is disseminated Px(1%)
1000NE	Lh7092006(2)	Luumbe River	8880522	271910	1238 Pmp	Qtzite	gry	fine	hol-gr	m-h	none				Bedded	12	49	
1000NE	Lh7092701	Tributary of Luko	8881469	272481	1330 Pmp	Qtzite	White	mdg	hol-gr	h	none				Bedding	78	16	Fe oxides along bedding planes
1000NE	Lh7092702	Luumbe River	8878917	272613	1240 Pmp	Qtzite	gry	mdg	hol-gr	h	none				Bedding	10	45	Pyrite mineral is present
1000NE	Lh7092801	Luumbe River	8893634	270213	1372 Pmp?	Qtz. Vein	white to pinkish red	mdg	hol-gr	h	none				Bedding	10	45	barren
1000NE	Lh7092802	Luumbe River	8893665	270521	1372 Pmp	Qtzite	white to pinkish red	mdg	hol-gr	h	none				Bedding	6	-26	
1000NE	Lh707001(1)	the western riverside of Luko Stream	8853812	266421	1319 Pmp?	Qtzite	gry	fine	hol	h	none				Bedding			
1000NE	Lh707001(2)	the western riverside of Luko Stream	8853812	266421	1319 Pmp?	Qtzite	gry	fine	hol	h	none				Bedding			
1000NE	Lh707001(3)	Luko Stream	8893336	265863	1298 Pmp	Qtzite	gry	fine	hol	h	none				Bedding	280	70	Outcrop size: 10mX5m
1000NE	Lh707001(4)	Luko Stream	8890377	265814	1262 Pmp	Qtzite(Brecciate?)	gry	fine	hol	h	none				Bedding			Insitu float
1000NE	Lh707001(5)	Luko Stream	8890377	265814	1262 Pmp	Qtzite(Brecciate?)	gry	fine	hol	h	none				Bedding	284	70	
1000NE	Lh707001(4)(2)	Tributary of Luko	8879961	265485	1257 Pmp	Pegmatite	gry	1-10	hol	h	none				Bedding	302	-72	Trend of bedding: 326
1000NE	Lh707001(4)(2)	Tributary of Luko	8879961	265485	1257 Pmp	Pegmatite	gry	1-10	hol	h	none				Bedding	302	-72	
1000NE	Lh707001(5)	Luko Stream	8879218	265614	1255 Pmp	Qtzite	gry	fine	hol	h	none				Bedding			
1000NE	Lh707001(6)	Luko Stream	8879167	265684	1252 Pmp	Qtzite	gry	fine	hol	h	none				Bedding			
1000NE	Lh707001(6)(2)	Luko Stream	8879168	265684	1252 Pmp	Pegmatite	gry	1-10	hol	h	none				Bedding			
1000NE	Lh707002(3)	Lukulu River	8880214	253934	1274 Pmp	Qtz. vein	white	fine	hol	h	none				Qtz. vein	290		Barren, Width: apx 10m
1000NE	Lh707002(4)	Lukulu River	8879543	254834	1260 Pmp	Qtzite	gry	fine	hol-gr	h	none				Qtz. vein	298	-86	
1000NE	Lh707002(5)	Lukulu River	8879415	250645	1265 Bn	Granitoid	whitish gry	1-6	hol	h	none				Bedded	288	84	
1000NE	Lh707002(6)	Lukulu River	8879415	250645	1265 Bn	Granitoid	whitish gry	1-6	hol	h	none				Bedded	288	84	
1000NE	Lh707002(8)	Lukulu River	8878393	257895	1267 Bn	Pegmatite	gry	1-10	hol	h	none				Pegmatite	296		
1000NE	Lh707002(9)	Lukulu River	8878393	257895	1267 Bn	Pegmatite	gry	1-10	hol	h	none				Pegmatite	296		
1000NE	Lh707002(10)	Lukulu River	8878393	257895	1267 Bn	Pegmatite	gry	1-10	hol	h	none				Pegmatite	296		
1000NE	Lh707002(11)	Lukulu River	8878393	257895	1267 Bn	Pegmatite	gry	1-10	hol	h	none				Pegmatite	296		
1000NE	Lh707002(12)	Lukulu River	8878393	257895	1267 Bn	Pegmatite	gry	1-10	hol	h	none				Pegmatite	296		
1000NE	Lh707002(13)	Lukulu River	8878393	257895	1267 Bn	Pegmatite	gry	1-10	hol	h	none				Pegmatite	296		
1000NE	Lh707003(1)	Lukulu River	8879120	258286	1264 Pmp	Qtzite	Whitish gry	2-10	hol-gr	h	none				Bedded	282	82	
1000NE	Lh707003(1)	Lukulu River	8879120	258286	1264 Pmp	Qtzite	Whitish gry	2-10	hol-gr	h	none				Bedded	284	80	
1000NE	Lh707003(2)	Lukulu River	8879529	258521	1260 Bn	Pegmatite	gry	1-4	hol	h	none				Bedded	282	82	
1000NE	Lh707003(3)	Ffawa Stream	8874543	258010	1288 Bn	Granitic gneiss	Whitish gry	1-3	hol	h	none				Bedded	282	82	Tourmaline is present
1000NE	Lh707003(3)	Ffawa Stream	8874543	258010	1288 Bn	Granitic gneiss	Whitish gry	1-3	hol	h	none				Bedded	282	82	Outcrop size 100mX70m
1000NE	Lh707003(4)	Ffawa Stream	8876272	261286	1262 Bn	Qtz. vein	White	1-4	hol	h	none				Qtz. vein	310	90	Barren, Width=2.5m
1000NE	Lh707003(4)	Ffawa Stream	8876272	261286	1262 Bn	Qtz. vein	White	1-4	hol	h	none				Qtz. vein	310	90	Weak chloritization
1000NE	Lh707003(4)	Ffawa Stream	8876331	261456	1258 Bn	Granitoid	gm wh	1-2	hol	h	none				Gneissosity	330	90	

Appendix V-6 Field Observayion Sheet 4/12

1/100,000 Sheet	Outcrop No.	Location	Coordinate (UTM/ARC 950) N E	Elevation (m)	1) Formation/Intrusive	2) Rock name	3) Color	4) Size of phenocryst	5) Crystallinity	6) Hardness	7) Porosity	8) Shape of grains	9) Sorting of grains	Others (size, OPK, etc.)	strike-dip	strike (0-360)	dip (N+S-)	Note (size, remarkable structure, OPK, etc.)	Handspecimen
1030NE	LH7100103	Fwawa Stream	262022	1255	Int	Basic Rock, dyke	Dk gm, gry	Alpha	hol	h	none	9) Sorting of grains	Others (size, OPK, etc.)	Magnetic. Pyrite are present	Dike	26	First dyke W-5m. Second one W-1m.		
1030NE	M29	Fisaka	8875642	213910	1105	Gabbro	Dk Green		Massive					Coarse grained					
1030NE	M30	Nkanga	8875922	211337	1145	Gabbro	Dk Green		Massive					Coarse grained					
1030NE	M31	Nkanga	8875557	211514	1145	Laterite	Brown		Earthy					Coarse grained					
1030NE	M32	near Kasamba	8870096	262974	1285	Granitoid	Grey							Coarse grained					
1030NE	M33	Kasamba	8871834	262251	1200	Granitoid	Greysh							Coarse grained					
1030NE			8870081	268996	1200	Laterite	Brown		Earthy					Coarse grained					
1030NE			8870182	268973	1240	Laterite	Brown		Earthy					Coarse grained					
1030NE			8867708	265592	1200	Schist	Brown		Earthy					Coarse grained					
1030NE	M34	Nkanga	8870081	268686		Laterite	Brown		Schistose					Coarse grained			Highly weathered material		
1030NE			8870182	268873		Laterite	Brown							Coarse grained					
1030NE			8876140	268202		Laterite	Brown							Coarse grained					
1030NE		Nkanga Farm	8866830	264726		Pegmatite	Grey							Coarse grained					
1030NE		Nkanga Farm	8866913	264899		Pegmatite	Grey							Coarse grained					
1030NE		Nkanga Farm	8867278	265262		Pegmatite	Grey							Coarse grained					
1030NE		Nkanga Farm	8867313	265262		Pegmatite	Grey							Coarse grained					
1030NE		Nkanga Farm	8867419	265318		Oz. vein								Massive					
1030NE	LH7091701	Nkanga Farm	8867235	264489	1400	Oz. vein	lt. pink-wt	<2	hol	m-h				Massive					
1030NE	LH7091702	Nkanga Farm	8867235	264489	1400	Oz. vein	lt. pink-wt	<2	hol	m-h				Massive					
1030NE	LH7091703	Nkanga Farm	8867546	264502	1400	Oz. vein	lt. pink-wt	<2	hol	m-h				Massive					
1030NE	LH7091802	Samba	8897444	264188	1401	Schist	lt. grey	<2cm/ltf	hol	m-h				Massive					
1030NE	LH7091803	Samba	8893660	253893	1352	Granitoid	lt. grey	<2cm/ltf	hol	h	s			Coarse grained					
1030NE	LH7091901	Samba	8893207	253742	1352	Granitoid	lt. grey	<2cm/ltf	hol	h	s			Coarse grained					
1030NE	LH7091901(2)	Samba	8889463	253691	1336	Ozite msv	lt. grey	<1	hol	h	s			Coarse grained					
1030NE	LH7091902	Samba	8889463	253691	1336	Ozite msv	lt. grey	<1	hol	h	s			Coarse grained					
1030NE	LH7091903	Samba	8889879	253714	1323	Ozite msv	lt. grey	<1	hol	h	s			Coarse grained					
1030NE	LH7091904	Samba	888423	254306	1327	slate	dk silver	<2	hol	m	s			Coarse grained					
1030NE	LH7091905	Samba	8892920	254306	1300	Ozite msv	lt. grey	<2	hol	m	s			Coarse grained					
1030NE	LH7091906	Samba	8893756	254526	1296	Ozite msv	lt. grey	<1	hol	m	s			Coarse grained					
1030NE	LH7091907	Samba	8886911	253871	1284	Ozite msv	lt. grey	<1	hol	m	s			Coarse grained					
1030NE	LH7091908	Samba	8885114	255291	1274	Ozite bed	lt. grey	<1	hol	h	s			Coarse grained					
1030NE	LH7091909	Samba	8883610	259166	1284	Silt rock	wt	<1	crystalline	h	s			Coarse grained					
1030NE	LH7092001	Samba	8892639	260004	1253	Ozite, msv/Pegmatite	lt. grey	<1	hol	h	s			Coarse grained					
1030NE	LH7092002	Samba	8881655	260482	1251	Ozite, msv/Pegmatite	lt. grey	<1	hol	h	s			Coarse grained					
1030NE	LH7092003	Samba	8881370	260759	1254	Ozite bed	lt. grey	<1	hol	h	s			Coarse grained					
1030NE	LH7092003(2)	Samba	8881370	260759	1254	Ozite bed	lt. grey	<1	hol	h	s			Coarse grained					
1030NE	LH7092004	Samba	8893535	268506	1216	Silt rock	lt. brown		subradial	h	s			Coarse grained					
1030NE	LH7092005	Samba	8884854	255559	1213	Silt rock	lt. brown		subradial	h	s			Coarse grained					
1030NE	LH7092006	Samba	8878246	264831	1245	Schist	wt-gry	very fine	radial	h	s			Coarse grained					
1030NE	LH7092007	Samba	8878285	264427	1246	Schist	greenish gry	very fine	radial	h	s			Coarse grained					
1030NE	LH7092008	Samba	8878586	262328	1244	Schist	lt. grey	very fine	radial	h	s			Coarse grained					
1030NE	LH7092009	Samba	8878570	262148	1241	Schist	lt. grey	very fine	radial	h	s			Coarse grained					
1030NE	LH7092010	Samba	8878257	260818	1246	Ozite bed	dk-lt. gry	very fine	radial	h	m-s			Coarse grained					
1030NE	LH7092015	Samba	8878257	260818	1246	Ozite bed	dk-lt. gry	very fine	radial	h	m-s			Coarse grained					
1030NE	LH7092016	Samba	8878380	260831	1247	Silt	lt. greenish gry	very fine	radial	h	m			Coarse grained					
1030NE	LH7092017	Samba	8879237	260725	1249	Pegmatite	lt. grey-wt	msc.3cm	hol	m	m-h			Coarse grained					
1030NE	LH7092018	Samba	8880043	261318	1259	Schist	lt. grey	very fine	hol	m	m			Coarse grained					
1030NE	LH7092019	Samba	8881426	260878	1255	Ozite msv	gry	very fine	hol	m	m			Coarse grained					
1030NE	LH7092020	Samba	8881426	260878	1255	Ozite msv	gry	very fine	hol	m	m			Coarse grained					
1030NE	LH7092021	Samba	8881426	260878	1255	Ozite msv	gry	very fine	hol	m	m			Coarse grained					
1030NE	LH7092022	Samba	8881426	260878	1255	Ozite msv	gry	very fine	hol	m	m			Coarse grained					
1030NE	LH7092023	Samba	8892541	259906	1360	Granitoid	lt. grey	1-2	hol	h	s			Coarse grained					
1030NE	LH7092024	Samba	8892131	259859	1359	Granitoid	lt. grey	1-3	hol	h	s			Coarse grained					
1030NE	LH7092025	Samba	8891932	259972	1353	Granitoid	lt. grey	2-3	hol	h	s			Coarse grained					
1030NE	LH7092026	Samba	8890989	259389	1340	Granitoid	lt. grey	2-3	hol	h	s			Coarse grained					
1030NE	LH7092027	Samba	8892657	260818	1332	Granitoid/Ozite	lt. grey	3-5	hol	h	s			Coarse grained					
1030NE	LH7092028	Samba	8890139	258914	1330	Granitoid/Ozite	lt. grey	fine-3	hol	h	m			Coarse grained					
1030NE	LH7092029	Samba	8889407	259007	1328	Granitoid/Ozite	lt. grey	fine-3	hol	h	m			Coarse grained					
1030NE	LH7092030	Samba	8888474	258874	1308	Granitoid/Ozite	lt. grey	1-3	hol	h	s			Coarse grained					
1030NE	LH7092031	Samba	8885825	258524	1304	Granitoid	lt. grey	msv-fine	hol	h	s			Coarse grained					
1030NE	LH7092032	Samba	8885853	258638	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092033	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092034	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092035	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092036	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092037	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092038	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092039	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092040	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092041	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092042	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092043	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092044	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092045	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092046	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092047	Samba	8885856	258637	1288	Gabbro	dk gry	msv	hol	h	s			Coarse grained					
1030NE	LH7092048	Samba	8885856	258637															

Appendix V-6 Field Observayion Sheet 5/12

1/10000 Sheet	Outcrop No.	Location	Coordinate (UTM/ARC 950) N E	Elevation (m)	Formation/Intrusive	Rock facies					Strike-slip				Notes (size, remarkable structure, OPK, etc.)	Handspecimen	
						1) Formation/Intrusive	2) Rock name	3) Color	4) Size of phenocryst / clast (mm)	5) Crystallinity	6) Hardness	7) Porosity	8) Shape of grains	9) Sorting of grains			Others (size, OPK, etc.)
1000NE	Lh7/100213	Sambar-Lubemba	8865378	258650	1200 Bn	Qtzite bed	dk grey	fine	h s								
1000NE	Lh7/100214	Sambar-Lubemba	8865004	258544	1287 Bn	Qtzite bed	wt-lt grey	fine	h s								partly foliation?
1000NE	Lh7/100215	Sambar-Lubemba	8864976	258490	1286 Bn	Qtzite msv	wt-grm	fine	h s								Foliation?
1000NE	Lh7/100301	Sambar-Lubemba	8868901	262883	1382 Ks	Qtzite msv/Ss	pink	fine-coarse	m-h								waterfalls, big outcrop 10x20m
1000NE	Lh7/100302	Sambar-Lubemba	8868934	262886	1383 Ks	Shale	ly pink-wt	fine-coarse	s m								banded
1000NE	Lh7/100302A	Sambar-Lubemba	8868934	262886	1383 Ks	Qtzite bed/Ss	lt pink	fine-coarse	m-s								
1000NE	Lh7/100303	Sambar-Lubemba	8868939	263054	1386 Ks	Qtzite zone	lt grey	fine	m-s								
1000NE	Lh7/100304	Sambar-Lubemba	8868939	263054	1387 Ks	Qtzite zone	lt grey	fine	m-s								
1000NE	Lh7/100305	Sambar-Lubemba	8868939	262874	1357 Ks	Qtzite zone	lt grey	fine	m-s								
1000NE	Lh7/100306	Sambar-Lubemba	8868530	262874	1357 Ks	Qtzite zone	lt grey	fine	m-s								
1000NE	Lh7/100307	Sambar-Lubemba	8868530	262874	1357 Ks	Qtzite zone	lt grey	fine	m-s								
1000NE	Lh7/100308	Sambar-Lubemba	8865610	260916	1317 Bm	Qtzite bed	dk grey	fine	h s								
1000NE	Lh7/100309	Sambar-Lubemba	8865484	261022	1318 Bm	Silt rock	lt brwn-wt	fine	h s								
1000NE	Lh7/100310	Sambar-Lubemba	8865317	260901	1318 Bm	Silt rock	milky wt-brwn	fine	h s								
1000NE	Lh7/100311	Sambar-Lubemba	8865317	260901	1302 Int	Gabbro	lt grn	pl-2	h s								
1000NE	Lh7/100401	Sambar-Lubemba	8865326	272314	1355 Ks	Qtzite msv	wt	<1	m								
1000NE	Lh7/100402	Sambar-Lubemba	8865326	272314	1346 Ks	Qtzite bed	lt grey-brwn	<1	h s								
1000NE	Lh7/100403	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100404	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100405	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100406	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100407	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100408	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100409	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100410	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100411	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100412	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100413	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100414	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100415	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100416	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100417	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100418	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100419	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100420	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100421	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100422	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100423	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100424	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100425	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100426	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100427	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100428	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100429	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100430	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100431	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100432	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100433	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100434	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100435	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100436	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100437	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100438	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100439	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100440	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100441	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100442	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100443	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100444	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100445	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100446	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100447	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100448	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100449	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100450	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100451	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100452	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100453	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100454	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100455	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100456	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100457	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100458	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100459	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100460	Sambar-Lubemba	8864839	265970	1358 Ks	Qtzite bed	lt grey-wt	<1-2	h s								
1000NE	Lh7/100461	Sambar-Lub															

Appendix V-6 Field Observayion Sheet 6/12

1/10000 Sheet	Outcrop No.	Location	Coordinate (UTM/ARC 950) N E	Elevation (m)	1) Formation/Intrusive	2) Rock name	3) Color	4) Size of phenocryst /clast (mm)	5) Crystallinity	6) Hardness	7) Porosity	8) Shape of grains	9) Sorting of grains	Others (size, OPK, etc.)	Type/bedding/joint, vein, etc.	strike-dip	dip (N+S-)	Note (size, remarkable structure, OPK, etc.)	Handspecimen
1000NE	LH7090707	At River side	241203	1270 Bm	Granitoid?	Lt Brn	Whitewathered		hol	h	none							Strongly weathered and altered	*
1000NE	LH7091703		885878	1356 Pmp	Qtzite	Pinkish white		frag	hol	h	none							Float from Mwezi Stream. Same Location as 1030B3.33	*
1000NE	LH7091704		886519	1379 Pmp	Qtzite	Pinkish white		frag	hol	h	none								*
1000NE	LH7091705		886414	1414 Pmp	Qtzite	Pinkish white		frag	hol	h	none								*
1000NE	M18	Mumana Sch	886396	235204	Qtzite	Pinkish white		frag	Granular	h	none								*
1000NE	LH7090301	Kapanda	8851824	228929	Laterite	red-brown				m-s	m-h							partly small blocks	*
1000NE	LH7090302	Kapanda	8851823	231295	az vein	milky wt				m-s	m-h							msv milky qz <5cm	*
1000NE	LH7090303	Kapanda	8852149	231904	Conglomerate	lt grey-brown				m-s	m-h							partly small blocks	*
1000NE	LH7090304	Kapanda	8852148	231905	Silt rock	red-brown				m-s	m-h							partly small blocks	*
1000NE	LH7090305	Kapanda	8848011	238005	Silt rock	milky wt				h	s							partly small blocks	*
1000NE	LH7090401	Mukanga stream	8850243	240139	Silt rock	milky wt				h	s							partly small blocks	*
1000NE	LH7090402	Mukanga stream	8850057	240320	az vein	milky wt				h	s							partly small blocks	*
1000NE	LH7090403	Mukanga stream	8849998	240368	az vein	milky wt				h	s							partly small blocks	*
1000NE	LH7090404	Mukanga stream	8849885	240083	Pegmatite	grey-silver				h	s							partly small blocks	*
1000NE	LH7090405	Mukanga stream	8849705	240017	Pegmatite	grey-silver				h	s							partly small blocks	*
1000NE	LH7090406	Mukanga stream	8849647	240037	Pegmatite	grey-silver				h	s							partly small blocks	*
1000NE	LH7090407	Mukanga stream	8848187	240015	Pegmatite	milky wt				h	s							partly small blocks	*
1000NE	LH7090408	Mukanga stream	8849589	239984	Sch	red-brown				h	s							partly small blocks	*
1000NE	LH7090409	Mukanga stream	8850335	240265	az vein	milky wt				h	s							partly small blocks	*
1000NE	LH7090410	Mukanga stream	8850336	240266	Pegmatite	grey-silver				h	s							partly small blocks	*
1000NE	LH7090411	Mukanga stream	8850007	240716	Granitoid	brwnish grey				h	s							partly small blocks	*
1000NE	LH7090412	Mukanga stream	8851047	240705	Granitoid	brwnish grey				h	s							partly small blocks	*
1000NE	LH7090413	Luenga stream	8854179	244451	Granitoid	brwnish grey				h	s							partly small blocks	*
1000NE	LH7090501	Myonopolo stream	8854887	230580	Pegmatite	milky wt				h	s							partly small blocks	*
1000NE	LH7090502	Myonopolo stream	8854889	230784	Pegmatite	milky wt				h	s							partly small blocks	*
1000NE	LH7090601	Kabundi stream	8860917	232606	Shale	lt brwn-red				h	s							partly small blocks	*
1000NE	LH7090602	Kabundi stream	8860889	232621	Qtzite bed/Ss.	lt pink				h	s							partly small blocks	*
1000NE	LH7090603	Kabundi stream	8860889	232621	Silt rock	wt				h	s							partly small blocks	*
1000NE	LH7090604	Kabundi stream	8860894	232786	Qtzite bed/Ss.	lt pink-wt				h	s							partly small blocks	*
1000NE	LH7090605	Kabundi stream	8860894	232786	Qtzite bed/Ss.	lt pink-wt				h	s							partly small blocks	*
1000NE	LH7090606	Kabundi stream	8860897	232735	Laterite	red-brown				h	s							partly small blocks	*
1000NE	LH7090607	Kabundi stream	8860888	232758	Laterite	red-brown				h	s							partly small blocks	*
1000NE	LH7090608	Kabundi stream	8860816	232787	Shale	red-lt pink				h	s							partly small blocks	*
1000NE	LH7090609	Kabundi stream	8860647	232728	Qtzite msv	red-dk brwn				h	s							partly small blocks	*
1000NE	LH7090610	Kabundi stream	8860576	232622	Laterite	red-dk brwn				h	s							partly small blocks	*
1000NE	LH7090611	Kabundi stream	8857990	230545	Laterite	red-dk brwn				h	s							partly small blocks	*
1000NE	LH7090612	Kabundi stream	8860928	230205	Silt rock	milky wt				h	s							partly small blocks	*
1000NE	LH7090613	Kabundi stream	8860928	230205	Shale	lt purple				h	s							partly small blocks	*
1000NE	LH7090614	Kabundi stream	8860781	230184	Shale	lt purple				h	s							partly small blocks	*
1000NE	LH7090701	Mukanga stream	8862424	234425	Qtzite msv	lt pink-wt				h	s							partly small blocks	*
1000NE	LH7090702	Mukanga stream	8862424	234425	Shale	red-brown				h	s							partly small blocks	*
1000NE	LH7090703	Mukanga stream	8861466	235171	Shale	lt pink-wt				h	s							partly small blocks	*
1000NE	LH7090704	Mukanga stream	8861290	235342	Qtzite bed	lt pink-wt				h	s							partly small blocks	*
1000NE	LH7090705	Mukanga stream	8861209	235429	Qtzite msv	lt pink-wt				h	s							partly small blocks	*
1000NE	LH7090706	Mukanga stream	8861198	235499	Qtzite msv	lt pink-wt				h	s							partly small blocks	*
1000NE	LH7090707	Mukanga stream	8861172	235751	Laterite	dk brwn-red				h	s							partly small blocks	*
1000NE	LH7090708	Mukanga stream	8862029	235984	Conglomerate	lt grey-wt				h	s							partly small blocks	*
1000NE	LH7090709	Mukanga stream	8862082	238013	Conglomerate	lt pink-wt				h	m-s							partly small blocks	*
1000NE	LH7090710	Mukanga stream	8862175	238119	Conglomerate	lt pink-wt				h	m-s							partly small blocks	*
1000NE	LH7090711	Mukanga stream	8862131	238236	Laterite	dk brwn-red				h	s							partly small blocks	*
1000NE	LH7090712	Mukanga stream	8862460	238324	Laterite	dk brwn-red				h	s							partly small blocks	*
1000NE	LH7090713	Mukanga stream	8862700	238334	Qtzite msv/Ss.	lt pink				h	s							partly small blocks	*
1000NE	LH7090714	Mukanga stream	8862779	238181	Shale	lt purple				m-h	s							partly small blocks	*
1000NE	LH7090715	Mukanga stream	8862921	238023	Qtzite msv/Ss.	lt pink				h	s							partly small blocks	*
1000NE	LH7090716	Mukanga stream	8863225	235889	Laterite	dk brwn-red				h	m-h							partly small blocks	*
1000NE	LH7090717	Mukanga stream	8863362	235784	Laterite	dk brwn-red				h	m-h							partly small blocks	*
1000NE	LH7090718	Mukanga stream	8863500	235894	Laterite	dk brwn-red				h	m-h							partly small blocks	*
1000NE	LH7090719	Mukanga stream	8864182	234955	Laterite	dk brwn-red				h	s							partly small blocks	*
1000NE	LH7090720	Mukanga stream	8864182	234955	Laterite	dk brwn-red				h	s							partly small blocks	*
1000NE	LH7090721	Mukanga stream	8863933	237074	Metavolcanic	lt pink				h	s							partly small blocks	*
1000NE	LH7090722	Mukanga stream	8864001	237506	Metavolcanic	lt pink				h	s							partly small blocks	*
1000NE	LH7090723	Mukanga stream	8864231	236976	Qtzite msv	lt pink				h	s							partly small blocks	*
1000NE	LH7090724	Mukanga stream	8865860	235786	Qtzite msv	lt pink-brwn				h	s							partly small blocks	*
1000NE	No. 1		8856188	263075	Qtzite	light pink				h	s							partly small blocks	*
1000NE	No. 2		8853314	265149	Qtzite	light pink				h	s							partly small blocks	*

Appendix V-6 Field Observayion Sheet 7/12

1/100,000 Sheet	Outcrop No.	Location	Coordinate (UTM/ARC 950) N E	Elevation (m)	Rock facies										strike-dip	Notes (size, remarkable structure, OPK, etc.)	Handspecimen	
					1) Formation/Intrusive	2) Rock name	3) Color	4) Size of phenocryst	5) Crystallinity	6) Hardness	7) Porosity	8) Shape of grains	9) Sorting of grains	Others (size, OPK, etc.)				
1000NE	No.3		8855924	263197		Qtzite	light pink	medium>>c coarse	hol-pol	h	none				333	35	bedding structure	
1000NE	No.3(2)		8855924	263197		Qtzite	light pink	medium>>c coarse	hol-pol	h	none				310	42	tabular big boulder (3x20m)	
1000NE	No.4	Near Sontola Stream	8845891	253801	1272 Bm	Qtzite	light pink	medium>>c coarse	hol-pol	h	none				300	60	Outcrop size is 1.5mX1.0 width: 1m ² barren Oz vein	
1000NE	L07/096501		8866218	279879	1246 Pmp	Oz Vein	white	1-2	hol-gr	h	none				80	90	K-feldspar max. size is 20mm	
1000NE	L07/096502	Riveride of Mwevu Stream	8838991	257944	1244 Bm	Augen Gneiss	grey	1-3	hol	h	none				84	90	Outcrop size is 1.5mX1.0 width: 1m ² barren Oz vein	
1000NE	L07/096503	Mwera stream	8841575	260094	1240 Bm	Gneiss	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096504	riburuzi Mafu Stream	8845636	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096505		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096506		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096507		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096508		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096509		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096510		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096511		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096512		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	L07/096513		8846546	260177	1237 Bm	coarse grained quartzite	grey	1-3	hol	h	none				86	90	K-feldspar max. size is 20mm	
1000NE	M35	Nkanga	8862890	262920	1230	Granitoid	Purple	1-3	hol	h	none				308	-85	Block of gneiss at same location (gneissosity is 289)	
1000NE	M36	K - L road	8860607	263381		Granitoid	Brownish pink	1-2	hol	h	none				20	52	Block of gneiss at same location (gneissosity is 289)	
1000NE	M37	Chigabo	8856918	262130	1245	Qtzite	Brownish pink	1-2	hol	h	none				74	90	Highly weathered	
1000NE	M38	Chigabo	8853117	268832		Qtzite	pinkish white	1-2	hol	h	none				294	4	Ridge Forming Brown bands (Fr)	
1000NE	M39	Mwanzsha	8852713	263181		Qtzite	Brown	1-2	hol	h	none				294	4	Parallel jointing system	
1000NE	-		8856428	263142		Qtzite	Pinkish white	1-2	hol	h	none				350	90	Parallel jointing system	
1000NE	-		8855772	263310		Qtzite	Brown	1-2	hol	h	none				294	-64	J2-140/46SW, J3-80/90	
1000NE	M40	Mwanzsha	8853309	265163		Qtzite	Brown	1-2	hol	h	none				292	20	Intercalated with shale	
1000NE	M41	Lupundu	8857117	281161		Qtzite	Brown	1-2	hol	h	none				292	20	Intercalated with shale	
1000NE	-		8859234	264330		Qtzite	Brown	1-2	hol	h	none				296	90		
1000NE	M42	Mwenya Hill	8858943	264888		Qtzite	Lt Brown	1-2	hol	h	none				296	90		
1000NE	M43	Mwenya Hill	8858467	265463	1235	M/Qtzite	Brown/white	1-2	hol	h	none				296	90	Breciation + Microfolding	
1000NE	M44	Mwenya Hill	8857990	264986		Qtzite	Brown	1-2	hol	h	none				296	90	Intercalated with shale	
1000NE	-		8857992	264854		Shale	Pink	1-2	hol	h	none				320	20	Intercalated with quartzite	
1000NE	M45		8858088	264711		Shale	Brown	1-2	hol	h	none				320	20	Intercalated with quartzite	
1000NE	-		8858057	264515		Shale	Brown	1-2	hol	h	none				320	20	Intercalated with quartzite	
1000NE	-		8858592	263848		Qtzite	White	1-2	hol	h	none				320	20	Intercalated with quartzite	
1000NE	-		8854249	287790		Qtzite	White	1-2	hol	h	none				320	20	Intercalated with quartzite	
1000NE	M46	Tributary of Mungombe	8853936	258361		Qtzite	Lt Brown	1-2	hol	h	none				10	90	well jointed, J2=10d/90d	
1000NE	M47	Near K-L road	8860200	258600	1275	Qtzite	Lt Brown	1-2	hol	h	none				292	90	Low ridge forming	
1000NE	-		8860692	281189		Qtzite	Lt Brown	1-2	hol	h	none				20		Highly fractured	
1000NE	M48		8861075	258224		Qtzite	Brown	1-2	hol	h	none				284	-40	Banded	
1000NE	-		8861625	257575		Qtzite	Brown/white	1-2	hol	h	none				284	-40	Banded rock	
1000NE	M49	Chikunta Area	8861916	257192	1330	Qtzite	brown/white	1-2	hol	h	none				284	-40	Banded	
1000NE	M50		8862581	256970		Oz vein	White	1-2	hol	h	none				90		Speculante mineralization	
1000NE	-		8862906	257284		Qtzite	brown/white	1-2	hol	h	none				90		Banded	
1000NE	-		8863267	257483		Qtzite	brown/white	1-2	hol	h	none				300	-40	Avg Bed thickness = 30cm	
1000NE	M51		8860747	257818	1275	Qtzite	brown/white	1-2	hol	h	none				304	-20	Shale overlying quartzite	
1000NE	M52	Quarry off K-L road	8860626	257962		Shale	brown	1-2	hol	h	none				60	90	Joint, vertical	
1000NE	M53	Lukulu River	8857875	253859	1095	Granitoid	pink	1-2	hol	h	none				60	90	Building sand deposits	
1000NE	M54	Lukulu River	8855607	279402		Gabbro	Dark	1-2	hol	h	none				60	90	Building sand deposits	
1000NE	M55	Near Kabundi stream	8853612	270983	1245	Sand Spi.	Lt Brown	1-2	hol	h	none				60	90	old iron-Smelling kiln	
1000NE	-		8852930	263196		Qtzite	Lt Brown	1-2	hol	h	none				60	90	old iron-Smelling kiln	
1000NE	-		8852394	263295		Qtzite	Lt Brown	1-2	hol	h	none				60	90	old iron-Smelling kiln	
1000NE	KLN2	Kabundi Stream	8852161	263277		Qtzite	Lt Brown	1-2	hol	h	none				60	90	old iron-Smelling kiln	

Appendix V-6 Field Observayion Sheet 8/12

1/10000 Sheet	Outcrop No.	Location	Coordinate (UTM/ARC 950) N E	Elevation (m)	1) Formation/Intrusive	2) Rock name	3) Color	4) Size of phenocryst /clast (mm)	5) Crystallinity	6) Hardness	7) Porosity	8) Shape of grains	9) Sorting of grains	Others (size, QPK, etc.)	strike-dip	strike (0-360)	dip (N+S-)	Note (size, remarkable structure, QPK, etc.)	Handspecimen
1000NE	M56	Kabundi Stream	865216 263538	1165	Lt. grey	Lt. grey	Reddish/yellow							Plenty limonite presents	320	-45		Ridge forming. Noted in a stream bed	*
1000NE	M57	Lungina Stream	865342 263423	1165	Qtzite	Qtzite	Light Brown							Porphyritic					
1000NE	M58	Manenwa Stream	864917 270451	1195	Qtz. vein	Qtz. vein	white							Qz=45%, K=20%, Bio=30%, Epi=5%				Pink, Black, /green-white	*
1000NE	M59	Chintu Stream	865350 276438	1165	Granite	Granite	Mottled							Highly weathered pegmatite granite				weathered/kf large crystal	*
1000NE	M60	Nikolle Stream	864953 271767	1165	Granite	Granite	Pinkish/Black							Bi=40%, K=30%, Qz=20%, Epi=10%				SO2=30%	*
1000NE	M61	Farm off K-L road	865060 282241	1115	Qtzite	Qtzite	Light Brown							Qz=30, Bio=25, K=10, Epi=10					
1000NE	P62	Lukulu River	865709 279149	1237	Qtzite	Qtzite	Grey			m-h				well sorted					
1000NE	P63	Luena Stream	865361 276989	1125	Silicic	Qtzite	Greenish grey							External weathering of Limonitic yellow					
1000NE	P64	Kunda Stream	865370 276171	1155	Granodiorite	Granodiorite	Greenish black							Banded rock of Quartz and feldspar + Biotite					
1000NE	P65	Masanga	865039 276471	1155	Silicic	Qtzite	Grey							Banded rock of Quartz and feldspar + Biotite					
1000NE	P66	Lukulu River	865059 276482	1175	Bm	Augen gneiss	Greenish grey							Promising vein for route crystal mining					
1000NE	P67	Lukulu River	865827 276688	1260	Silicic	Qtzite	Light Brown							some msz qz segregation lenses <wd10cm, L=80cm, partly micaceous					
1000NE	P68	Mwenya Hill	866119 267719	1280	Silicic	Qtzite	Light Brown							NW10 dominant NE22					
1000NE	P69	Luena Stream	865876 276614	1160	Silicic	Qtzite	Milky white												
1000NE	-	Lukulu River	865877 276690	1237	Bm	Qtzite, msz/SS.	Qtzite, msz/SS.												
1000NE	Lh7100801	Lunyina	865812 276572	1237	Bm	Qtzite, msz/SS.	Qtzite, msz/SS.												
1000NE	Lh7100801(2)	Lunyina	865812 276572	1244	fit	Qtz. vein	milky wt												
1000NE	Lh7100802	Lunyina	865758 272575	1244	fit	Qtz. vein	milky wt												
1000NE	Lh7100803	Lunyina	865631 267355	1208	Bm	Granitoid	lt. grey-greenish grey		hol										
1000NE	Lh7100803(2)	Lunyina	865631 267355	1304	Mp	Qtzite, msz	lt. grey-lt. purple												
1000NE	Lh7100804	Lunyina	865549 265713	1304	Mp	Qtzite, msz	lt. grey-lt. purple												
1000NE	Lh7100805	Lunyina	865505 265595	1328	Mp	Qtzite, msz	lt. grey-lt. purple												
1000NE	Lh7100901	Lunyina	864628 280319	1228	Bm	Granitoid	ly grey												
1000NE	Lh7100902	Lunyina	864628 280125	1233	fit	Gabbro	dk grey												
1000NE	Lh7100903	Lunyina	864627 280014	1232	Bm	Gneiss	lt. pink grey		hol?										
1000NE	Lh7100903(2)	Lunyina	864627 280014	1234	Bm	Gneiss	lt. pink grey		hol?										
1000NE	Lh7100904	Lunyina	864165 279640	1254	Bm	Gneiss	lt. pink grey												
1000NE	Lh7101001	Lunyina	863918 268940	1251	fit	Pegmatite	wt												
1000NE	Lh7101002	Lunyina	863913 268951	1253	fit	Pegmatite	wt-gry												
1000NE	Lh101592	Mwefu	863909 260114	1243	Bm	Gneiss	lt. grey-lt. gm												
1000NE	Lh7110601	Mr.Dokowe outcrop	8662108 259343	1308	Bm	Qtzite, bed	lt. grey												
1000NE	Lh7110601(2)	Mr.Dokowe outcrop	8662108 259343	1308	Bm	Qtzite, bed	lt. grey												
1000NE	Lh7110602	Mr.Dokowe outcrop	8662317 259455	1306	Bm	Qtzite, bed	lt. grey												
1000NE	Lh7110603	Mr.Dokowe outcrop	8663743 260018	1301	Bm	Qtzite, bed	dk grey												
1000NE	Lh7110604	Mr.Dokowe outcrop	8663654 260268	1306	Bm	Granitoid/Qtzite	lt-dk grey												
1000NE	L4009	Mr.Dokowe outcrop	8666157 263511	1306	Bm	Pegmatite	lt-dk grey												
1000NE	L4010	Mr.Dokowe outcrop	8666145 263507	1306	Bm	Pegmatite	lt-dk grey												
1000NE	L4011	Mr.Dokowe outcrop	8665598 262056	1306	Bm	Pegmatite	lt-dk grey												
1000NE	L4012	Mr.Dokowe outcrop	8665598 262023	1306	Bm	Pegmatite	lt-dk grey												
1000NE	L4013	Mr.Dokowe outcrop	8665011 261607	1306	Bm	Pegmatite	lt-dk grey												
1000NE	L4014	Mr.Dokowe outcrop	8665011 261607	1306	Bm	Pegmatite	lt-dk grey												
1000NE	L4015	Mr.Dokowe outcrop	8665243 262226	1306	Bm	Pegmatite	lt-dk grey												
1000NE	L4016	Mr.Dokowe outcrop	8662125 263556	1306	Bm	Qtzite	white												
1000NE	L4017	Mr.Dokowe outcrop	8662113 263327	1306	Bm	Qtzite	white												
1000NE	L4018	Mr.Dokowe outcrop	8663759 260035	1306	Bm	Biotite schist	black												
1000NE	L4019	Mr.Dokowe outcrop	8664365 260360	1306	Bm	Conglomerate	black												
1000NE	L4020	Mr.Dokowe outcrop	8664019 259650	1306	Bm	Qtzite	white												
1000NE	L4021	Mr.Dokowe outcrop	8646390 254516	1253	fit	Qtzite	white												
1000NE	L4022	Mr.Dokowe outcrop	8646453 254393	1253	fit	Qtzite	white												
1000NE	L4023	Mr.Dokowe outcrop	8646430 253787	1253	fit	Qtzite	white												
1000NE	L4024	Mr.Dokowe outcrop	8650028 254461	1253	fit	Qtzite	white												
1000NE	L4025	Mr.Dokowe outcrop	8650028 254461	1253	fit	Qtzite	white												
1000NE	L4026	Mr.Dokowe outcrop	8654095 258019	1253	fit	Qtzite	white												
1000NE	L4027	Mr.Dokowe outcrop	8653930 258243	1253	fit	Qtzite	white												
1000NE	L4028	Mr.Dokowe outcrop	8653926 258353	1253	fit	Qtzite	white												
1000NE	L4029	Mr.Dokowe outcrop	8653763 258361	1253	fit	Qtzite	white												
1000NE	L4030	Mr.Dokowe outcrop	8653248 258217	1253	fit	Qtzite	white												
1000NE	L4031	Mr.Dokowe outcrop	8652195 258103	1253	fit	Qtzite	white												
1000NE	L4032	Mr.Dokowe outcrop	8652195 258103	1253	fit	Qtzite	white												
1000NE	L4033	Mr.Dokowe outcrop	8646413 265442	1253	fit	Qtzite	white												
1000SE	Lh7062200-2	Okokor river	8635386 238936	1253	fit	Granitoid	grey-lt. brwn		hol					boulder(1.5x0.4m) at riverside					
1000SE	Lh7062200-2	Okokor river	8635386 238936	1253	fit	Granitoid	grey-lt. brwn		hol					boulder(1.5x0.4m) at riverside					
1000SE	Lh7062200-2	Okokor river	8635386 238936	1253	fit	Granitoid	grey-lt. brwn		hol					boulder(1.5x0.4m) at riverside					

Appendix V-6 Field Observayion Sheet 9/12

1/100,000 Sheet	Outcrop No.	Location	Coordinate (UTM/ARC 950) N E	Elevation (m)	1) Formation/Intrusive	2) Rock name	3) Color	4) Size of phenocryst /clast (mm)	5) Crystallinity	6) Hardness	7) Porosity	8) Shape of grains	9) Sorting of grains	Others (size, OPK, etc.)	strike-slip (0-360)	dip (N+S-)	Notes (size, remarkable structure, OPK, etc.)	Handspecimen
1000SE	Lh7/062/201	Mukanga river	8834396 250351		Bm	Granitoid	grv	1-2	hol	h	s			Qz=PKF271 mafic:30%	288	lt gm epidote rich (weathere)	*	
1000SE	Lh7/062/501	Lubansenshi river	8836576 224274		Bm	Granitoid	grv-lt brwn	<1	hol	h	s			if vein (<1.5cm) OPK=163 mafic:30%	60	epidote <1mm	*	
1000SE	Lh7/062/502.1	Lubansenshi river	8836576 224274		Bm	Granitoid	grv-lt brwn	1-2	hol	h	s			if fraz veins<2cm X4 OPAK=154 mafic:30%	285	epidote rich <1mm	*	
1000SE	Lh7/062/502.2	Lubansenshi river	8836576 224274		Bm	Pagmatite	w-lt yw	max 3cm	m-h	m	s			coarse massive qz, feldspar <3cm		crystalline qz < feldspar	*	
1000SE	Lh7/062/502.3	Lubansenshi river	8836576 224274		Bm	Conglomerate	dk-r. lt grv	<1.5cm	hol	m	h			qz breccia rich <1.5cm, similar to ignimbrite		qz sub-angular dominant, tuffaceous matrix	*	
1000SE	Lh7/101/501	Lubansenshi River	8810917 250370	1188 Kt	Bm	medium grained	Lt reddish brown fng		hol	h	h			Bedding	350		*	
1000SE	Pg61	Kakoko Stream	8835242 239679	1100 Int		Granite	Greenish black	Cos	hol	h	h			Joint	294	Qz=40%, K=15%, Bio=20%, Epi=10%	*	
1000SE	Pg60	Mukanga	8834403 250289	1095 Int		Granite	Greenish black	Cos	hol	h	h			Joint, vertical	350	Multiple Jointing System	*	
1000SE	Pg60		8834403 250289											Joint, vertical	290		*	
1000SE	Pg60		8834403 250289											Joint, vertical	360		*	
1000SE	Pg59	Lubansenshi	8837232 226527	1165 Int		Granitic gneiss	Greenish black	Cos		h	h			granitic gneiss by thin section	40	Qz=40%, K=20%, Bio=20%, Epi=5%	*	
1000SE	Pg59(2)		8837232 226527											Joint, vertical	340		*	
1000SE	Pg70	Luwingu Area	8829974 249107	1085 Int		Granite	Greyish	Cos	Porph	h	h			Joint, vertical	370	Qz=40%, Bio=20%, K=10%	*	
1000SE	Pg70(2)		8829974 249107											Joint, vertical	80		*	
1000SE	Pg70(3)		8829974 249107											Joint, vertical	294		*	
1000SE	-	Lubansenshi River	8829540 248782	1090		Laterite	Brown											
1000SE	-	Lubansenshi River	8827705 248857	1080		Laterite	Brown											
1000SE	-	Lubansenshi River	8831545 248857	1105		Laterite	Brown											
1000SE	Pg71	Lubansenshi River	8818285 248490	1085		Laterite	Brown											
1000SE	Lh7/062/901	Kakoko	8825342 248580	1080		Shale	Pink	1-2	hol	m-h	s-m			partly muscovite, bp>musc		Outcrop inside of the river	*	
1000SE	Lh7/062/902	Kakoko	8835410 239861	1219 flt		Granitoid	grv-lt grm	1-2	hol	m-h	s-m			1.5x1.0x1.0m		partly Kf conc.	*	
1000SE	Lh7/062/903	Kakoko	8835372 239921	1221 Bm		Granitoid	lt grm	1-2	hol	m-h	s			OPA=60/35.5, mafic=10%, bi rich		bi musc=9-1	*	
1000SE	Lh7/062/904	Kakoko	8835199 240172	1220 Bm		Granitoid	lt grm-gry	1-2	hol	m-h	s			OPA=50/40.10, mafic=5%, bi		partly chl/epi	*	
1000SE	Lh7/062/905	Kakoko	8835304 240172	1229 Bm		Granitoid	lt grm-gry	1-2	hol	m-h	s			OPA=50/40.10, mafic=5%, bi		partly chl/epi	*	
1000SE	Lh7/062/906	Kakoko	8835299 239847	1213 Bm		Granitoid	lt grm-gry	1-2	hol	m-h	s			OPA=40/40.20, mafic=10%		4 blocks (max 1.5x1.0x1.0m)	*	
1000SE	Lh7/101/501	Kakoko	8835110 239847	1210 Bm		Conglomerate	lt grm-gry	1-2	hol	m-h	s			well sorted	290		*	
1000SE	Lh7/101/601		8838260 260022	1241 Mpf(flt)		Silt rock	w-lt pink	very fine- coarse	crystalline	h	s-m			well-poor	4	Quartzite or shear zone?	*	
1000SE	Lh7/101/601(2)		8831124 269047	1240 Mpf		Silt rock	w-lt pink	coarse		m-h	m-s			Joint	-67		*	
1000SE	Lh7/101/602		8831124 269047	1228 flt		Qtzite msy	lt grm	very fine		h	s			Joint	278		*	
1000SE	Lh7/102/601		6797750 256716	1207 flt		Ss	dk brwn	very fine- fine		m	m			partly well sorted		partly iron rich bands (<5mm), Lb7102601	*	
1000SE	Lh7/102/602		6793718 256559	1186 Q		Evaporated salt?	w-lt brwn	very fine		m	m-s			Bedding	66	on only dry season, it can be seen on surface	*	
1000SE	Lh7/103/101		6790036 260295	1165 Kf?		Ss	lt brwn-red	very fine		m	m-s			Bedding	4	partly iron rich bands (<3mm)	*	
1000SE	Lh7/103/102		6793718 256559	1186 Kf?		Ss	lt brwn-red	very fine		m	m-s			Bedding	8	partly muscovite	*	
1000SE	Lh7/103/104		6793718 256559	1187 Kf?		Ss	lt brwn-red	very fine		m	m-s			Bedding	12	ms, weak weathere, not micaceous	*	
1000SE	Lh7/103/105		6793718 256559	1184 Kf?		Ss	lt brwn-red	very fine		m	m-s			Bedding	47	lamination clear, micaceous <1mm	*	
1000SE	L403		8834407 250289	1184 Kf?		granite	lt brwn-red	very fine		m	m-s			Bedding	39		TD10	
1000SE	L403		8835388 239689			granite	lt brwn-red	very fine		m	m-s						TD10	
1000SE	L403		8831195 238300			Or. vein	Or. vein										TD11	
1000SE	L403		8831024 238301			Or. vein	Or. vein										TD13	
1000SE	L403		8830553 238073			Or. vein	Or. vein										TD13	
1000SE	L403		8830487 238295			Or. vein	Or. vein										TD13	
1000SE	L403		8830130 237327			Or. vein	Or. vein										TD13	
1000SE	L404		8830649 238295			Or. vein	Or. vein										TD13	
1000SE	L404		8831831 238672			granite	lt brwn										TD12	
1000SE	L404		8830722 240776			granite	lt brwn										TD12	
1000SE	L404		8831061 240787			granite	lt brwn										TD12	
1000SE	L404		8830596 243849			granite	lt brwn										TD12	
1000SE	L404		8830681 243820			granite	lt brwn										TD12	
1000SE	L404		8830246 243157			granite	lt brwn										TD13	
1000SE	L404		8830449 242967			granite	lt brwn										TD13	
1000SE	L404		8830526 242901			granite	lt brwn										TD13	
1000SE	L404		8830777 242811			granite	lt brwn										TD13	
1000SE	L405		8831051 242812			granite	lt brwn										TD14	
1000SE	L405		8831341 242825			granite	lt brwn										TD14	
1000SE	L405		8831395 242843			granite	lt brwn										TD15	
1000SE	L405		8831500 242716			granite	lt brwn										TD15	
1000SE	L405		8831500 242712			granite	lt brwn										TD15	
1000SE	L405		8832180 242891			granite	lt brwn										TD16	
1000SE	L405		8832584 242989			granite	lt brwn										TD16	
1000SE	L405		8835203 239892			metagranite/melns	lt brwn										TD17	
1000SE	L405		8835384 239756			granite	lt brwn										TD17	

Appendix V-6 Field Observayion Sheet 12/12

1/100,000 Sheet	Outcrop No.	Location	Coordinate (UTM/Arc 1950) N E	Elevation (m)	Formation/Intrusive	Rock name	Color	Size of phenocryst /clast (mm)	Crystallinity	Hardness	Porosity	Shape of grains	Sorting of grains	Others (size, OPK, etc.)	Type/bedding/joint, vein, etc.	strike-dip	dip (N+ S-)	Notes (size, remarkable structure, OPK, etc.)	Handspecimen
1130SE	FC081315	River outcrop	8668910 273299	1198	Kt	Sandstone	grey			m	L	rd	w		Bedding	323	19	Jointed micaceous sandstone with joints(NE-SW)	*
1130SE	APD081301	Banks of river	8668892 258653	1190	Kt	Sandstone	brn-ylw			m	H	rd	w		Bedding	80	20	Very siliceous	*
1130SE	APD081302	Lwinkla river	8668874 259042	1188	Kt	Sandstone	brn-ylw			m	H	rd	w		Bedding	45			*
1130SE	APD081303	Lwinkla river bank	8668546 260253	1200	Kt	Sandstone	brn-ylw	0.3		m	H	rd	w		Bedding	40		weathered ss in river bed	*
1130SE	N090601	Munkashi R	8721191 271191	1211	Kt	m-ss	grey	0.2		h	L	rd	w		Bedding	301	16	Excellent exposure ss with tiny bk mineral	*
1130SE	N090602	Munkashi R	8721874 270972	1220	Kt	m-ss	grey	0.1		h	L	rd	w		Bedding	331	90	no bedding observed due to massive structure	*
1130SE	N090603	Munkashi R	8720988 270864	1208	Kt	F-ss	lt grey			h	L	rd	w		Joint	21		Qz rich >> vt pl	*
1130SE	N090604	Munkashi R	8718870 269985	1210	Kt	F-ss	lt pink-ylw	0.1		h	L	rd	w		Bedding	13			*
1130SE	N090605	Munkashi R	8721830 270848	1221	Kt	F-ss	grey	0.1		h	L	rd	w		Bedding	18	-3	fine concretion material or rocks from drill pit1927S LULINGLA 1971	*
1130NE	N092101	Old drill site?	8760704 279203	1263	Float	F-ss	pink/vt ylw	0.1		h	L	rd	w					DOS	*
1130NE	N090101	Lukashishi R	8746720 267860	1197	Kt	sandstone	pinkish red	0.5		m	L	rd	w		Bedding	74	-2	reddish sandstone qz2>k-fpl	*
1130NE	N090102	Lukashishi R	8746732 267752	1193	Kt	sandstone	pinkish brn	0.5		m	L	rd	w		Bedding	348	-1		*
1130NE	N090103	Lukashishi R	8746492 267601	1190	Kt	sandstone	pinkish brn	0.3-0.5		m	L	sa-sr	m		Bedding	336	-7		*
1130NE	N090104	Lulingla R	8746842 261784	1182	Kt	sandstone	pinkish brn	0.5		m	L	sa-sr	m		Bedding	86	26	River bed. Impossible to measure bedding	*
1130NE	N090105	Lulingla R	8747158 261973	1185	Kt	sandstone	pinkish brn	0.5		m	L	rd	w		Bedding	60	-15	containing fine mica(Detrital mica?)	*
1130NE	N090106	Lulingla R	8751112 263286	1188	Kt	sandstone	pinkish brn	0.5		m	L	rd	w		Bedding	315	-14	Jointed & small micaceous sandstone with joints(NE-SW)	*
1130NE	FC090116	River outcrop	8735970 262186	1182	Kt	Sandstone	w/brn			m	L	rd	w		Bedding	335	-10	Jointed & small micaceous sandstone with joints(NE-SW)	*
1130NE	A090117	Lubaleshi R	8735904 262071	1192	Kt	Sandstone	red grey	f		m	M	rd	p		Bedding	90	6	X-laminated	*
1130NE	A090118	Lubaleshi R	8739718 278242	1248	Kt	F-ss	red grey	f		m	M	rd	p		Bedding	70	3	X-laminated	*
1130NE	A090119	Lubaleshi R	8741836 270941	1209	Kt	F-ss	red?	?		m	M	rd	p		Bedding	70	3	X-laminated	*
1130NE	A090203	Lubaleshi R	8741794 271215	1212	Kt	F-ss?	red?	?		?	?	rd	?		Bedding	3		river bed	*
1130NE	A090204	Lubaleshi R	8741722 271404	1214	Kt	F-ss	red	f		m	M	rd	p		Bedding	310	30	weak weathered	*
1130NE	FC090218	Riverbed outcrop	8735698 260842	1188	Kt	Sandstone	Red-vt			m	L	rd	w		Bedding	330	-16	Small (35m) and weathered sandstone along the river	*
1130NE	A090401	Lubaleshi R	8741952 282410	1243	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	32	10		*
1130NE	A090402	Lubaleshi R	8742787 280864	1243	Kt	F-m,ss	red grey	F-m		m	M	rd	p		Bedding	70	3		*
1130NE	A090403	Lubaleshi R	8742964 280540	1245	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	40	4		*
1130NE	A090404	Lubaleshi R	8743096 280369	1244	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	45	10		*
1130NE	A090405	Lubaleshi R	8744057 278407	1237	Kt	m,ss	red grey	F-m		m	M	rd	p		Bedding	40	26		*
1130NE	A090406	Lubaleshi R	8744978 277960	1236	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	30	0		*
1130NE	A090407	Lubaleshi R	8745452 277960	1236	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	40	4	Bedding, horizontal	*
1130NE	A090408	Lubaleshi R	8743467 276116	1235	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	40	4		*
1130NE	A090409	Lubaleshi R	8743129 276236	1221	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	318	20		*
1130NE	A090410	Lubaleshi R	8742544 275751	1227	Kt	m,ss	red	m		m	M	rd	p		Bedding	0		Bedding, horizontal	*
1130NE	A090411	Lubaleshi R	8742286 275146	1226	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	20	-10	Bedding, horizontal	*
1130NE	A090412	Lubaleshi R	8741884 274701	1225	Kt	F-m,ss	red	F-m		m	M	rd	p		Bedding	385	9	Extensive and jointed red sandstone across the river	*
1130NE	FC090419	Riverbed outcrop	8738988 268483	1201	Kt	Sandstone	Red			v-h	L	rd	w		Bedding	45	10	Medium-sized and jointed red sandstone across the river	*
1130NE	FC090420	Riverbed outcrop	8738782 268236	1201	Kt	Sandstone	Red			v-h	L	rd	w		Bedding	50	8	Small and jointed red sandstone across the river	*
1130NE	FC090421	Riverbed outcrop	8739338 268818	1202	Kt	Sandstone	Red			v-h	L	rd	w		Bedding	20	90	Very siliceous, small and nearby the river	*
1130NE	FC090422	Hill outcrop	8738422 267384	1201	vein	Quartz vein	grey-vt			v-h	L	rd	w		Vein	20		Small and weathered red sandstone across the river	*
1130NE	N090501	Lubaleshi R	8738692 268236	1196	Kt	Sandstone	pinkish brn	0.3-0.5		m	L	rd	w		Bedding	60	-4	Reddish SS (Qz?Pl?vt clay?)	*
1130NE	N090502	Lubaleshi R	8738692 268236	1196	Kt	Sandstone	pinkish brn	0.3-0.5		m	L	rd	w		Bedding	60	-4		*
1130NE	N090701	Mbati Road	8766570 263070	1205	-	waterwell				m	L	rd	m		Bedding	88	12	20m depth waterwell. Rocks from bottom of well already removed.	*
1130NE	N090901	Lulingla R	8746860 261163	1190	Kt	m-ss	reddish	0.3-0.5		h	-	ang	m				In river bed. Qz-Pl ss. Pl near surface has green color.	*	
1130NE	A090901	Lulingla R	8781962 281067	1239	?	gravel? Ferrocreate	red	10-20		h	-	ang	m				Ferrocreate?	*	
1130NE	A090901	Chambeshi R	8768275 272856	1195	?	Slag?	reddish	0.3		m	L	rd	m				float of reddish sandstone containing hematite dots	*	
1130NE	N091101	Near Chambeshi R	8768660 260224	1170	Float	m-ss	purple	fine		h	L	rd	m				float of reddish sandstone containing hematite dots	*	
1130NE	N091102	Near Chambeshi R	8766256 260452	1180	Float	gravel of quartzite	purple			h	L	rd	m				sub rounded gravel of purple quartzite	*	

Appendix V-6 (3) List of Laboratory Works

Ser	Outcrop No	Sheet	Coordinate (Arc1950)		Geology		Sample Name of Laboratory Work					
			N	E	Formation /Intrusive	Rock name	Rock Geochemistry	Ore assay	Whole Rock	Thin Section	Polished Section	EPMA Dating
1	A091702	1030NE	8863015	236393	vein	Qz vein	RA004					
2	FC091929	1030NE	8868852	244690	Bm	Granite	RC012		RC012W	RC012T		RC012D
3	FC092228	1030NE	8872321	276977	Dyke	Gabbro				RC013T		
4	KILN2	1030NE	8852161	263277				Om-03				
5	Ld001	1030NE	8879829	280853		granite	Gd-01					
6	Ld008	1030NE	8879300	278463		Microgranite	Gd-02					
12	Lh7062605	1030NE	8881636	228108	Bm	Gneiss						Dh-02
13	Lh7090721	1030NE	8863933	237074	Kt	medium grained granite		Oh-03	Rh-02	RA008T	Ph-03	RA008D
14	Lh7091304	1030NE	8891138	244208	vein	Qz vein	Gh-04					
15	Lh7091308	1030NE	8887038	241682	Bm	Qzite bed	Gb-01					
16	Lh7091903	1030NE	8888423	254306	fit	slag	Gh-05					
17	Lh7100208	1030NE	8888474	258874	Bm	Granitoid/Qzite	Gh-02	Oh-01			Ph-01	
18	Lh7100210	1030NE	8885853	258638	Int	Gabbro		Oh-02	Rh-01	RA007T	Ph-02	
19	LI07091205	1030NE	8886926	231638	Pmp?	Hornfels	Gi-04					
20	LI07091903	1030NE	8876831	277083	Bm	Granitoid	Gi-05					
21	LI07092005	1030NE	8880272	272159	Int	Basic Rock dyke	Gi-06					
22	LI07092701	1030NE	8881469	272481	Pmp	Qtzite	Gi-01					
23	LI07100301	1030NE	8879529	259521	Bm	Pegmatite	Gi-02	RA005		RA005T		
24	LI07100305	1030NE	8876993	262022	Int	Basic Rock dyke		Oi-01				
25	LI07100305	1030NE	8876993	262022	Int	Basic Rock dyke					Pi-01	
26	LI07100803	1030NE	8851771	270354	Bm	Granitoid			Ri-01			
27	M12	1030NE	8873216	229998		Basic Rock dyke	Gm-01					
28	M13	1030NE	8872761	227900		Granitoid	Gm-02					
29	M29	1030NE	8875642	273910		Gabbro	Gm-03	Om-01			Pm-01	
30	M50	1030NE	8862906	257294		Qz vein		Om-02				
31	N091301	1030NE	8860614	263394	Mp	Qtzite			RB011W	RB011T		
32	N091311	1030NE	8879860	279240	Bm	Sand				RB012T		
33	N091502	1030NE	8885626	260920	Bm	Bit schist				RB020T		RB020D
34	N091503	1030NE	8885486	261033	vein	Qz vein	RB013					
35	N091504	1030NE	8886464	262155	vein	Qz vein	RB014					
36	N091505	1030NE	8886747	262593	Ks	Qtzite			RB015W	RB015T		RB015D
37	N091602	1030NE	8863176	260668	Bm	Migmatite				RB016T		RB016D
38	N091603	1030NE	8863668	260286	Bm	Bit schist				RB017T		
39	N091606	1030NE	8864370	256353	Mp	Conglomerate	RB018					
40	N091607	1030NE	8862116	259325	Bm	meta Ss				RB019T		
41	N091707	1030NE	8881114	228205	Bm	ss gneiss(bit)				RB021T		
42	Ld033	1030SE	8834407	250299		granite	Gd-04					
43	Ld051	1030SE	8831321	242810		gabbro	Gd-05					
44	Lh7101601	1030SE	8831124	269047	Mp?	Sili rock	Gh-03					
45	Lh7103102	1030SE	8789966	280299	Kt?	Ss.	Gh-01					Dh-01
46	LI07101501	1030SE	8810917	250370	Kt	medium grained quartzite	Gi-03					DI-01
47	Pg59	1030SE	8837232	226527	Int	Granitic gneiss			Rm-01			
48	Pg62	1030SE	8857090	279149	Int	Granite			Rm-02			
49	Pg70	1030SE	8829974	249107	Int	Granite			RA006W	RA006T		RA006D
50	A090202	1130NE	8741896	270941	Kt	F.ss				RA003T		
51	FC090420	1130NE	8739782	268236	Kt	Sandstone	RC011			RC011T		RC011D
52	N090501	1130NE	8756582	266820	Kt	sandstone	RB010					
53	N090901	1130NE	8746860	261183	Kt	m-ss	RB009					
55	A080801	1130SE	8714953	279010	Kt	Sandstone	RA001					
56	APD080801	1130SE	8696293	250059	Kt	Sandstone	RD001			RD001T		
57	APD081301	1130SE	8686892	258653	Kt	Sandstone	RD002					
58	FC080705	1130SE	8701615	281014	Kt	Sandstone	RC005			RC005T		
59	FC080706	1130SE	8701681	280506	Kt	Sandstone	RC006					
60	FC080810	1130SE	8699889	275301	Kt	Sandstone	RC007					
61	FC081311	1130SE	8697628	264199	Kt	Sandstone	RC008					
62	FC081314	1130SE	8698766	269739	Kt	Sandstone	RC009					
63	FC081315	1130SE	8698910	273299	Kt	Sandstone	RC010			RC010T		
64	FC20080701	1130SE	8683564	270049	vein	Quartz Vein	RC001					
65	FC20080702	1130SE	8682437	269066	Kt	Siltstone	RC002			RC002T		
66	FC20080803	1130SE	8691312	267348	Kt	Sandstone	RC003		RC003W	RC003T		RC003D
67	FC20080804	1130SE	8686524	257955	Kt	Sandstone	RC004					
68	N072301	1130SE	8700207	276724	Kt	Siltstone	RB001			RB001T		
69	N081101	1130SE	8689786	253786	Kt	micaceous siltstone	RB002		RB002W	RB002T		RB002D
70	N081202	1130SE	8691310	252060	Kt	micaceous siltstone	RB003					
71	N081203	1130SE	8691368	251988	Kt	micaceous siltstone	RB004			RB004T		
72	N081205	1130SE	8693684	255223	Kt	Siltstone	RB005					
73	N081207	1130SE	8693072	256366	Kt	Siltstone	RB006					
74	N081306	1130SE	8696408	263189	Kt	siltstone	RB007			RB007T		
75	N081308	1130SE	8696066	262292	Kt	calcareous Ss	RB008			RB008T		