

Table A-2 Microscopic Observations (Thin Section)

Symbol

- ⊙ abundant (≥30%)
- common (30 > ≥10%)
- △ rare (10% >)
- + very rare

Abbreviation

Rock Name		Adjective	
Amph	Amphibolite	Sil	Siliceous
Dio	Diorite	Meta	Metamorphosed
Gb	Gabbro	impr	impregnated
Gns	Gneiss		
Gr	Granite		
Mg	Migmatite		
Peg	Pegmatite		
Sch	Schist		
Serp	Serpentinite		

Mineral Name

Qz	Quartz	Ru	Rutil
Pl	Plagioclase	Cr	Chromite
Kf	Potash Feldspar	Mg	Magnetite
Bio	Biotite	Hm	Hematite
Mus	Muscovite	Opq	Opaque mineral
Hb	Hornblende	Py	Pyrite
Tm	Tremolite	Cpy	Chalcopyrite
Hy	Hypersthene	Po	Pyrrhotite
Di	Diopside	Gra	Graphite
Ol	Olivine	Chal	Chalcedony
Ant	Antigorite	Amp	Amphibole
Tc	Talc	Act	Actinolite
Chl	Chlorite	Anth	Anthophyllite
Ep	Epidote	Cum	Cunningtonite
Zo	Zoisite	Sta	Staurolite
Ga	Garnet	Ser	Sericite
Sp	Sphene		
Cal	Calcite		

formation

B Basement



Table A-2 Microscopic Observations (Thin Section) -1

Forma- tion			Sample No.		Location X Y		Rock Name	Texture	M i n e r a l s																Remarks														
									Qtz	Pl	Kf	Bio	Mus	Kb	Tm	Ry	Di	Ol	Ant	Tc	Chi	Ep	Zo	Ga	Sp	Ca1	Ru	Cr	Mg	Hb									
B1	AR	91	754	166			Ca-Di-Amp Gns	granoblastic	○	⊙				⊙			Δ						+																
B11	AR	51	758	154			Ca-Amp Gns	granoblastic	⊙	⊙				○										○															
B111	AR	52	758	153			Ca-spot Amph porphyroblastic	weak schistose, porphyroblastic	○	○				⊙										⊙															
B111	AR	201	755	149			Ep Amph	weak schistose, granoblastic	Δ	○				⊙								⊙																	
B111	BR	48	755	155			Augen Gns	porphyroblastic	Δ	Δ	⊙	○		Δ			Δ																			Opq +			
B111	CR	13	751	153			Kf-augen Gns	porphyroblastic	⊙	⊙	○	○	Δ																										
B111	CR	32	774	155			Amp Gns	granoblastic	○	⊙				⊙																									
B111	CR	81	752	162			Amp Gns	granoblastic	○	⊙				⊙									+																
B111	DR	29	771	173			Anth-Cum-Tm Rock	massiv						⊙																									
B111	DR	30	771	173			Ca Amph	massive, equi-granular porphyroblastic						⊙										⊙															
B111	DR	36	771	173			Ep Amph	weak gneissose granoblastic						⊙										+															
B111	DR	41	769	173			Gneissose Amph	gneissose granoblastic						⊙										+															
B111	BR	142	756	203			Ep-Zo-Hb-Bio Gns	banded, granoblastic	⊙	⊙		○		Δ																									
B111	CR	43	759	155			Dio-Bio Gns	granoblastic	○	⊙				⊙			○																						
B111	BR	21	761	153			Banded Gns	banded, granoblastic	Δ	⊙				○																									
B111	CR	85	766	176			Hb Gns	polikloblastic	○	○				⊙																									

Table A-2 Microscopic Observations (Thin Section) - 2

Forma- tion	Sample No.	Location		Rock Name	Texture	Minerals															Remarks											
		X	Y			Qz	P1	Kf	Bio	Mus	Hb	Tm	Hy	Di	Ol	Act	Tc	Chl	Ep	Zo		Ga	Sp	Cal	Ru	Cr	Mg	Hb				
																																Sta Δ
BII	CR 126	758 201		Ca spot Sta-Hb Sch		○	○		Δ	○	Δ										Δ	*						Sta Δ				
BII	DR 43	768 175		Hb Sch	nematoblastic	○	○		Δ	○	○							*	*			*				+						
BIII	AR 116	758 200		Sil-Mus-Bio Sch	nematoblastic	○	○		○	○																	○	Opt +				
BIII	AR 135	766 177		Bio Sch	microgranoblastic	○	○		○	○	Δ									Δ												
BIII	AR 176	767 167		Mus-Bio-Qz Sch	microgranoblastic	○	○		Δ	Δ																						
BIV	AR 122	758 188		Tm Sch	nematoblastic							○																	Original rock is basic fine tuff			
BIV	AR 141	766 177		Mg-Hg-Qz Sch	banded	○																										
BIV	AR 183	766 167		Hb-Qz Sch	nematoblastic - granoblastic	○	○																									
BIV	BR 128	763 181		Mus-Bio Sch	nematoblastic	○	○		○	○	Δ																				Gra +	
BIV	CR 6	763 162		Chl-Act Sch	nematoblastic																										Act ⊙	
BIV	CR 103	766 174		Mg Impr Chl Sch	nematoblastic																											
BIV	CR 6	766 176		Chl Sch with Mg	lepidoblastic																											There are some porphyro- blasts of magnetite

Table A-2 Microscopic Observations (Thin Section) -3

Granite, Pegmatite, Migmatite, Diorite, Gabbro

Rock Unit	Sample No.	Location		Rock Name	Texture	Minerals														Remarks		
		X	Y			Qz	Pl	Kf	Bio	Mus	Hb	Ry	Di	Ol	Ant	Ep	Zo	Ca	Ru		AP	Sp
Fg	AR 62	776	193	Leucocratic Gr	holocrystalline, equi-granular	☉	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fg	DR 28	771	173	Micro Gr with flowage	gneissose, granoblastic	☉	○	△	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fg	DR 31	771	173	Mus Gr	weak gneissose, equi-granular	☉	☉	△	△	-	-	-	-	-	-	-	-	-	-	-	-	-
Fg	BR 111	752	173	Bio Peg	holocrystalline, equi-granular	☉	○	△	-	-	-	-	-	-	-	-	-	-	-	-	△	-
Fg	DR 39	771	173	Peg	holocrystalline, equi-granular	☉	☉	△	△	-	-	-	-	-	-	-	-	-	-	-	-	-
Mg	BR 9	758	155	Mig	massive, granoblastic	☉	☉	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mg	BR 106	754	173	Gneissose Mig	gneissose, granoblastic	☉	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mg	BR 161	751	144	Gneissose Mig	granoblastic	☉	○	△	○	-	-	-	-	-	-	-	-	-	-	-	-	-
Mg	CR 56	760	158	Gneissose Mig	weak gneissose, equi-granoblastic	○	☉	△	△	-	-	-	-	-	-	-	-	-	-	-	-	Py
Di	AR 72	764	171	Meta-Dio	holocrystalline, equi-granular	△	☉	-	-	-	-	-	-	-	△	-	-	-	-	-	-	-
Di	BR 66	764	168	Bio-Hb Dio	holocrystalline, equi-granular	△	☉	○	○	○	○	△	-	-	-	-	-	-	-	-	-	-
Di	CR 54	760	157	Gneissose HB-Bio-Qz Dio	gneissose, equi-granular	△	☉	△	△	-	-	-	-	-	-	-	-	-	-	-	-	-
Di	CR 205	758	189	Epidiorite	equi-granular	☉	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gb	AR 130	757	189	Sauesurite Gb	holocrystalline, equi-granular	○	-	-	-	-	-	-	-	△	-	-	-	-	-	-	-	-
Gb	BR 23	762	152	Meta-Gb	equi-granular, granoblastic	☉	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gb	CR 112	763	183	Sauesurite Gb		☉	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A-2 Microscopic Observations (Thin Section) -4

Sample No.	Location		Rock Name	Texture	Minerals																		Remarks					
	X	Y			Qz	Pl	Kf	Bio	Mus	Hb	Tm	Hy	Di	Ol	Ant	Tc	Chl	Sp	Zo	Ca	Sp	Cal		Ru	Cr	Mg	Hm	
AR 149	766	177	Serp	weak whicose																								Tuloc
BR 117	765	181	Talcoose Serp	mesh (Ant)																								
CR 206-2	758	189	Tm Serp	mesh																								Kamgasyon
DR 12	766	176	Serp (Wehrite)	mesh																								Tuloc
DR 13	766	176	Serp	massive, mesh																								Tuloc
DR 14	766	176	Serp (Wehrite)	mesh																								Tuloc
DR 15	766	176	Cr-bearing Serp	mesh																								Tuloc
DR 16	766	176	Cr-bearing Serp	mesh																								Tuloc
DR 19	766	176	Cr-bearing Serp	mesh																								Tuloc
DR 50	766	176	Cr-bearing Serp	mesh																								Tuloc
DR 51	766	176	Cr-bearing Serp	mesh																								Tuloc
DR 53	766	176	Cr-bearing Serp	mesh																								Tuloc
DR 54	766	176	Serp	mesh																								Tuloc
CR 115	765	177	weak serpentinized Dunite	mesh																								Opq Tuloc

Table A-2 Microscopic Observations (Thin Section) -5

Forma- tion	Sample No.	Location		Rock Name	Texture	Minerals																	Remarks					
		X	Y			Qz	Pl	Kf	Bio	Mus	Hb	Tm	Hy	Di	Ol	Ant	Tc	Chi	Ep	Zo	Ca	Sp		Cal	Ru	Cr	Mg	Hm
BIZ	DR 22	771	173	Skaarn	massive, granoblastic	⊙																					Opq +	Qt has saturated texture. Bio is altered to Chi.
BIII	CR 30	774	153	Cpy-Po disseminated Gr/Am-Bi skaarn	massive, granoblastic equi-granular																						Opq Δ	Pl is altered to Ser (float)
BIV	BR 152	767	170	Gr-Ens porphyro- blastic rock (skaarn?)	poikiloblastic, weak schistose	⊙																					Ens ⊙	
BIV	DR 10A	766	176	Chal-Qz-Py vein		⊙																					Py Δ	Chal, Agate ⊙ Δ
BIV	DR 10B	766	176	Agate-Chal-Qz-Py vein		⊙																					Py Δ	Chal, Agate ⊙ Δ





Table A-3 Microscopic Observations (Polished Section)

Sample No.	Location	Ore Name	Microscopic Observation	Remarks
DR-19	Tulot	massive chromite ore	The section consists mainly of xenomorphic chromite crystals with many fractures (<0.1 mm in width). The crystal boundaries are not clear. A small amount of serpentine fills some cracks and intergranular spaces. Discoloration caused by alteration is observed along cracks. Very weak cataclastic texture is visible in part.	Stock pile
DR-21	do	do	Almost same as DR-19, but the discoloration and alteration are not observed. Negative crystals of serpentine (0.05 - 0.3 mm in size) are in the chromite.	Stock pile
DR-44	do	do	Almost same as DR-19. Fractures with two directions (0.05 - 0.3 mm in width) are developed, and along them crushing or discoloration are often observable. A xenomorphic pyrite grain (0.004 mm in size) is in the chromite.	No. 2 "vein"
DR-5	do	banded chromite ore	Chromite crystals are separated by many irregular cracks (<0.3 mm in width) into small grains (<1 mm in size). Discoloration can be seen along some hair-cracks, but very weak. The crystals might be rich in ferric iron judging from its moderately strong magnetism. Very fine grains of chromite (<0.005 mm in size) are scattered in the serpentine.	
DR-15	do	coarse-grained disseminated chromite ore	Large chromite crystals (0.5 - 1.0 cm in size) are idiomorphic to hypidiomorphic with rounded shape. Parallel shear fractures (0.1 - 0.2 mm in width of interval) are developed, and along them weak discoloration is observable in part. The crystals are crushed into fine fragments (<0.2 mm in size), showing cataclastic texture, in a zone (>2 mm in width, >20 mm in length).	
DR-51	do	coarse-grained disseminated chromite ore	Xenomorphic chromite crystals with elliptic shape (<1 cm in size) are divided into small grains (<3 mm in size) by development of fractures (<0.15 mm in width). Irregular cracks are abundant and parallel shear fractures (0.1 - 0.2 mm in width of interval) are often visible.	southern extension of No. 2 "vein"
DR-53	do	medium grained disseminated chromite ore	Rounded hypidiomorphic chromite crystals (1 - 3 mm in size) with many irregular cracks (<0.05 mm in width) are abundant. Discoloration along cracks is observable but in a limited part. In part, the crystals are broken into fine fragments (<0.2 mm in size) by shearing.	do
CR-201	Kamgeyon	massive chromite ore	The section consists almost all of chromite crystals. The crystal boundaries are not clear, but it seems the fine grained xenomorphic crystals (0.3 - 2 mm in size) form the ore. A very small amount of xenomorphic magnetite (<0.01 mm in size or in length) is observed in part of cracks and in chromite crystals. Larger magnetite crystals are tend to be at the boundary between chromite and serpentine.	in-situ float of Kamgeyon chromium showing
CR-203	do	do	Same as CR-201	do
CR-208	do	do	Same as CR-201	do
DR-1	Parua	chalcocite-bornite ore	Ore minerals consist of bornite & chalcocite & pyrrhotite. Grains of bornite and chalcocite which has replaced bornite from rim are arranged in a zone (8 mm in width) in quartz vein, showing elongated shape such as ellipse or short rod (0.1 x 0.1 mm - 0.3 x 1.7 mm). The direction of elongation is parallel to it of the vein. In part chalcocite has replaced by gangue mineral. Irregular shaped pyrrhotite grains (0.1 - 0.8 mm in size) are placed in another zone (2 mm in width) in the vein, and show remarkable ex-solution lamellae probably between the two phases of pyrrhotite.	float accompanied of quartz vein.
CR-30	Tankal	chalcopyrite-pyrite-pyrrhotite disseminated ore	Pyrrhotite >> pyrite >chalcopyrite are disseminated in skarn minerals. Pyrrhotite (mostly 0.05 - 0.10 mm in size), pyrite (0.01 - 0.05 mm in size) and chalcopyrite (0.01 - 0.15 mm in size) are mostly xenomorphic and granular in form. Pyrite and chalcopyrite occur as single grain and also as paragenetic grain with pyrrhotite.	skarn ore float
CR-52	Marun River	pyrite-sphalerite (?) disseminated ore	Ore minerals are sphalerite(?) >pyrite (two stages). Coarse grained idiomorphic to hypidiomorphic pyrite (0.3 - 2.0 mm in size) has replaced along rim and fractures by gangue mineral. Later stage minerals, sphalerite(?) and pyrite are xenomorphic to hypidiomorphic small grains (0.01 - 0.05 mm in size), scattering in gangue abundantly. Sphalerite (?) shows rarely internal reflections.	

Table A-4 X-Ray Diffractive Analysis

Sample No.	Location	mineral to identify (inferred mineral)	identified mineral by X-ray examination
AR-98	Chaichai	clay mineral with molybdenite-quartz vein	clay mineral is not found.
BR-3	2 km North of Sebit	constituents of green loose rock interbedded with marble (Epidote, Chlorite, Montmorillonite)	Saponite, Amphibole (Flour-edenite or Hornblende)
CR-29	1.5 km South of Parua	black thin tabular mineral with quartz	Quartz, Ilmenite
DR-5	Tulot	purple mineral with chromite (Kammererite)	Kammererite, Donathite
DR-12	ditto	pale green mineral	Chlorite (Chamosite)
DR-26	ditto	dark gray mica-like mineral	Saponite
DR-27	ditto	white fibrous mineral (anthophyllite or tremolite)	Saponite, Amphibole (Anthophyllite, Ferrogedrite, Tremolite), Nordstrandite
DR-29	ditto	pale green foliated or fibrous mineral (actinolite)	ditto
DR-34	ditto	biotite-like mineral	Phlogopite, Ampibole (Flour-edenite or Hornblende)
DR-59	ditto	black mineral with quartz (tourmaline)	Tourmaline
DR-60	ditto	constituents of silicified serpentinite	Quartz, Nickel talc

Table A-5 Result of Chemical Analysis (Ore), Regional Survey Area

Sample No.	Au (ppm)	Ag (ppm)	Remarks
BR 143	<0.01	<0.2	pyrite impregnate hornblende gneiss
CR 34	<0.01	<0.2	pyrite quartz vein float
CR 52	<0.01	0.6	hematite-biotite-quartz altered rock
CR 58	<0.01	<0.2	silicified breccia
DR 10	<0.01	0.4	amorphous quartz veinlet and boxwork in serpentinite
DR 32	<0.01	<0.2	quartz vein in gneiss
DR 37	<0.01	<0.2	lenticular quartz vein in amphibolite near muscovite granite
DR 60	<0.01	<0.2	silicified serpentinite
DR 61	<0.01	0.6	amorphous quartz veinlet float
DR 62	<0.01	<0.2	quartz veinlet in serpentinite

Table A-5 Result of Chemical Analysis (Ore), Area A-(1)

Sample No.	CR (%)	Co (%)	Cu (%)	Ni (%)	Pt (ppm)	V (ppm)	Fe (%)	Al (%)	Remarks
AR 146	26.30	<0.01	<0.01	0.08	< 0.05	225	19.1	2.3	chromite float
CR 201	26.20	<0.01	<0.01	0.04	0.10	550	29.5	7.1	massive chromite float
CR 203	26.80	<0.01	<0.01	0.04	0.15	600	27.5	6.4	"
CR 208	27.80	<0.01	<0.01	0.04	0.10	425	31.6	4.3	"
CR 212	26.30	<0.01	<0.01	0.05	0.10	450	23.4	5.0	"
DR 5	33.95	<0.01	<0.01	0.06	< 0.05	200	15.6	2.4	"
DR 7	34.85	<0.01	<0.01	0.07	< 0.05	150	16.7	1.5	"
DR 8	38.75	<0.01	<0.01	0.05	< 0.05	225	12.9	2.4	"
DR 15	27.35	<0.01	<0.01	0.09	< 0.05	125	19.4	1.1	massive chromite ore
DR 17	39.90	<0.01	<0.01	0.05	< 0.05	150	15.2	2.4	massive chromite stock pile
DR 18	41.25	<0.01	<0.01	0.05	< 0.05	250	12.7	2.8	"
DR 19	37.45	<0.01	<0.01	0.08	< 0.05	200	12.4	2.4	"
DR 20	35.80	<0.01	<0.01	0.09	< 0.05	175	16.2	2.1	"
DR 21	36.25	<0.01	<0.01	0.05	0.05	175	15.2	2.4	"
DR 44	37.70	<0.01	<0.01	0.07	0.05	50	13.0	2.1	Tulet No. 2 Vein, regular sampling
DR 45	28.00	<0.01	<0.01	0.12	< 0.05	200	10.6	2.4	"
DR 46	28.90	<0.01	<0.01	0.14	< 0.05	250	12.4	2.4	"
DR 47	33.50	<0.01	<0.01	0.13	< 0.05	200	14.6	2.4	"
DR 48	34.85	<0.01	<0.01	0.08	< 0.05	225	12.4	2.4	"
DR 53	28.15	<0.01	<0.01	0.11	< 0.05	175	17.8	2.5	chromite impregnate serpentinite

Table A-5 Result of Chemical Analysis (Ore), Area A-(2)

Sample No.	Co (%)	Cu (%)	Ni (%)	Remarks
AR 2	<0.01	1.92	0.01	Cu stained amphibole gneiss
BR 46	<0.01	<0.01	0.01	green mineral stained biotite granodiorite
BR 56	<0.01	0.03	0.04	limonite stained, fine-grained biotite bearing quartzite
CR 30	0.01	0.04	0.05	skarn float
CR 71	<0.01	<0.01	0.04	skarn float
CR 90	0.03	<0.01	0.84	laterite
CR 91	0.02	<0.01	0.46	ditto
CR 92	0.02	<0.01	0.42	ditto
CR 93	0.02	<0.01	1.36	garnierite stained serpentinite
CR 94	0.02	<0.01	1.81	ditto
CR 95	0.02	<0.01	2.79	ditto
DR 1	0.04	1.1	0.05	green mineral stained quartz vein
DR 11	0.02	<0.01	0.89	garnierite stained serpentinite
DR 12	0.01	0.02	0.97	ditto
DR 54	0.01	<0.01	0.96	ditto
DR 54'	0.01	<0.01	0.36	limonite stained serpentinite
DR 55	0.01	<0.01	1.08	garnierite stained serpentinite
DR 56	0.01	<0.01	1.03	ditto
DR 57	0.01	<0.01	0.36	ditto
DR 58	0.02	<0.01	2.61	ditto
DR 64	0.01	<0.01	0.68	ditto

Table A-5 Result of Chemical Analysis (Ore), Area B

Sample No.	Nb	Ta	Sn	W	Li	F	U	Remarks
BR 92	<10	<2	<1	<2	5	65	6	green mineral stained pegmatite
BR 95	<10	<2	<1	7	7	68	4	muscovite pegmatite
BR 101	<10	<2	<1	<2	6	72	4	limonite and hematite stained quartz vein
BR 101'	<10	<2	<1	<2	5	49	4	green mineral stained pegmatite
BR 102	<10	<2	<1	<2	3	58	4	hematite halo in pegmatite
BR 103	<10	<2	2	2	5	59	24	ditto
BR 105	<10	<2	<1	12	6	40	4	biotite muscovite pegmatite
BR 108	<10	2	2	<2	1	14	4	black mineral in biotite gneiss near pegmatite
CR 73 *	<10	<20	35	<200	1	13	48	radio active mineral in pegmatite
CR 80	<10	2	<1	<2	1	71	6	ditto

\* Low sensitivity for CR 73 due to high La, Nd, Ce, Sm.

Table A-6 Result of Chemical Analysis (Rock), and Norm - 1

Sample No.	AR III	AR 130	BR 21	BR 23	BR 66	Remarks
Rock Name	Orthogneiss	Gabbro	Banded gneiss	Gabbro	Diorite	
Location	759-210	757-189	761-153	762-152	764-168	
SiO2	77.30	48.50	72.60	46.20	52.90	NO. 8a0 LOI
TiO2	0.10	0.10	0.80	1.80	2.30	AR111 0.08 1.4
Al2O3	11.00	8.60	9.20	13.50	10.50	AR130 0.05 0.2
CR2O3	0.00	0.00	0.40	1.00	0.00	BR 21 0.19 0.3
FE	1.30	5.30	2.90	13.90	9.00	BR 23 0.05 1.2
FE0	0.30	0.08	0.09	0.14	0.18	BR 66 0.14 0.6
MNO	0.20	3.40	1.70	4.80	3.80	
CAO	0.80	12.70	4.70	6.70	6.40	
NA2O	4.60	3.70	4.40	3.80	3.60	
K2O	3.00	0.40	3.70	1.80	2.80	
P2O5	0.10	0.10	1.00	0.90	4.60	
NI0	0.00	0.00	0.00	0.00	0.00	
TOTAL	98.72	89.18	101.39	102.54	110.48	
FE0*	( 1.47)	( 10.97)	( 6.86)	( 21.51)	( 21.96)	
FE0*/MGO	7.350	3.226	11.433	4.481	5.779	
MG/MG+FE	0.195	1.336	1.133	1.835	2.368	
FE0/MGO	1.500	1.559	4.833	1.875	2.368	
MG/MG+FE	0.543	0.533	0.269	0.437	0.429	
CIPW NORM (WT)						
GR	37.86	1.96	31.38	30.35	17.34	
OR	17.72	2.38	31.86	10.65	16.34	
AN	3.92	2.00	3.20	3.00	3.00	
AL	0.00	0.00	0.00	0.00	0.00	
NE	0.00	0.00	0.00	0.00	0.00	
CO	0.95	0.70	0.79	1.60	0.00	
W	0.02	4.50	1.95	3.65	0.00	
EN	0.00	0.00	0.00	0.00	0.00	
SO	0.00	0.00	0.00	0.00	0.00	
AT	0.00	0.00	0.00	0.00	0.00	
PL	0.74	0.33	0.61	0.52	0.87	
HA	0.19	1.23	0.61	0.49	0.60	
LS	0.23	0.20	0.20	0.20	0.00	
MS	0.44	0.30	0.30	0.00	0.00	
CA	0.00	1.00	0.00	0.00	0.00	
TOTAL	98.26	76.09	103.04	97.02	110.44	

Table A-6 Result of Chemical Analysis (Rock), and Norm - I

Sample No.	AR III	AR130	BR 21	BR 23	BR 66	Remarks
CIPW NORM (MOLE %)						
Q	72.64	27.91	64.16	9.12	34.85	
OR	7.34	1.48	9.69	6.77	28.70	
AB	17.11	15.20	17.49	21.77	17.00	
AN	0.00	0.00	0.00	0.00	0.00	
ALC	0.00	0.00	0.00	0.00	0.00	
LV	0.00	0.00	0.00	0.00	0.00	
NEC	0.00	0.00	0.00	0.00	0.00	
DI	0.94	20.60	0.84	17.46	0.00	
I	0.07	0.00	0.68	15.21	0.00	
ENS	0.37	5.90	0.12	25.94	0.00	
ENS	0.00	0.00	0.30	0.88	1.20	
HY	0.00	0.00	0.00	0.00	0.00	
E	0.00	0.00	0.00	0.00	0.00	
FOA	0.00	0.00	0.00	0.00	0.00	
FAT	0.07	0.08	0.39	15.43	0.19	
MIL	0.14	0.22	1.23	4.00	4.24	
AM	0.08	0.10	0.87	1.13	4.74	
HO	0.57	0.00	0.00	0.00	0.00	
WCS	0.43	21.53	0.00	0.00	0.00	
	0.00	0.00	0.00	0.00	0.00	
OXIDE RATIO (WT.)						
CAO/AL2O3	0.07	1.59	0.18	0.50	0.61	
CAO/NA2O	0.17	5.07	0.39	1.76	1.78	
HY-EN	0.18	0.50	0.61	0.00	0.00	
*** RATIO...EALKER ***						
PL	25.2	35.6	27.2	6.9	46.0	
CPX	1.5	55.9	6.8	20.6	33.8	
OL	0.8	4.1	4.2	53.0	36.6	
QZ	72.5	4.5	61.8	59.3	6.3	
OL	25.6	80.6	29.2	81.8	60.3	
QZ	73.6	10.1	66.3	49.5	68.3	
OL	0.8	9.3	4.5	67.8	48.0	
CPX	2.0	86.7	9.4	58.7	44.1	
QZ	97.0	6.9	84.9	12.1	11.8	
OL	1.0	6.3	5.7	53.5	67.6	
CPX	5.3	58.5	17.9	14.8	32.4	
OL	2.8	4.3	10.9	38.6	34.4	
PL	91.8	37.2	71.2	46.6	43.2	



Table A-6 Result of Chemical Analysis (Rock), and Norm - 2

Sample No.	BR III	CR 114	CR 115	DR 13	DR 28	Remarks
Rock Name	Pegmatite	Dunite	Dunite	Serpentinite	Granite	
Location	752 - 173	766 - 176	765 - 177	76 - 176	771 - 173	
SiO2	75.00	34.70	39.40	44.30	56.30	NO. 880 LOI
TiO2	0.30	0.10	0.10	0.10	0.70	BR111 0.05 0.6
Al2O3	11.40	0.10	1.30	1.60	14.30	CR114 0.04 18.3
CR2O3	0.00	0.00	0.00	0.00	0.00	CR115 <0.03 8.3
FE	2.90	5.70	4.80	5.80	9.60	DR 13 0.03 11.2
FeO	2.00	2.90	2.30	2.00	6.17	DR 28 0.11 1.4
MNO	0.04	0.08	0.05	0.06	0.17	
MGO	0.80	37.80	27.60	20.00	32.70	
CAO	1.70	0.30	0.70	0.60	6.30	
NA2O	3.60	0.10	0.10	0.10	4.30	
K2O	3.10	0.10	0.10	0.10	2.80	
P2O5	0.20	0.20	0.20	0.10	0.07	
NiO	0.00	0.00	0.00	0.00	0.00	
TOTAL	101.04	82.08	76.65	74.76	104.14	
FE0*	( 4.61)	( 8.03)	( 6.62)	( 7.22)	( 15.54)	
FE0*/MGO	5.762	0.212	0.240	0.361	5.756	
MG/MG+FE	0.236	0.894	0.881	0.832	0.236	
FE0/MGO	2.500	0.077	0.083	0.100	0.236	
MG/MG+FE	0.416	0.959	0.955	0.947	0.411	
CIPW NORM (WT)						
GR	39.08	0.09	0.09	0.09	8.14	
AB	18.37	0.58	0.55	0.55	16.58	
AL	30.46	0.00	0.87	0.87	30.00	
ALC	0.00	0.00	0.00	0.00	0.00	
NE	0.00	0.00	0.00	0.00	0.00	
ON	2.99	0.08	0.20	0.40	1.00	
NS	1.80	0.00	0.00	0.00	0.00	
ES	0.00	0.00	0.00	0.00	0.00	
SO	0.00	0.00	0.00	0.00	0.00	
FA	0.00	12.81	5.01	3.00	0.00	
AT	0.00	53.47	70.35	60.00	0.00	
LP	0.23	2.69	1.60	1.60	0.00	
JR	3.60	1.00	1.40	1.20	0.00	
HA	0.00	0.00	0.00	0.00	0.00	
MS	0.00	0.00	0.00	0.00	0.00	
KA	0.00	0.00	0.00	0.00	0.00	
TOTAL	98.09	82.02	76.65	74.76	104.14	

Table A-6 Result of Chemical Analysis (Rock), and Norm - 2

Sample No.	BR III	CR 14	CR 15	DR 13	DR 28	Remarks
CIPW NORM (MOLE %)						
GR	71.66	0.05	0.02	23.78	24.90	
ABZ	12.80	0.33	0.48	0.23	10.95	
AN	0.00	0.00	1.00	0.00	0.00	
LN	0.00	0.00	0.00	0.00	0.00	
EC	0.00	0.00	0.00	0.00	0.00	
DI	2.02	0.11	0.34	0.00	0.00	
ME	2.73	0.10	0.00	0.00	0.00	
NS	0.00	0.00	0.00	0.00	0.00	
DI	0.00	0.00	0.00	0.00	0.00	
EL	0.02	0.04	0.46	0.00	0.00	
FS	0.00	0.00	0.00	0.00	0.00	
FO	0.00	0.00	0.00	0.00	0.00	
EA	0.00	0.00	0.00	0.00	0.00	
FM	0.00	0.00	0.00	0.00	0.00	
LP	0.00	0.00	0.00	0.00	0.00	
MA	0.00	0.00	0.00	0.00	0.00	
HN	0.00	0.00	0.00	0.00	0.00	
CS	0.00	0.00	0.00	0.00	0.00	
OXIDE RATIO (WT.%)						
CAO/AL2O3	0.15	3.00	0.54	0.37	0.64	
CAO/NA2O	0.47	3.00	7.00	6.00	1.47	
HY-EN	0.54	0.37	0.44	0.00	0.00	
*** RATIO...EALKER ***						
PL	23.7	0.7	2.4	2.6	5.9	
CPL	1.1	0.3	0.4	0.3	0.8	
OL	6.4	92.9	61.3	51.9	25.0	
QZ	70.7	5.2	5.9	5.9	2.5	
OL	24.0	0.7	2.4	2.6	6.0	
QZ	71.5	0.2	3.6	5.7	3.0	
OL	4.4	93.1	61.5	41.8	30.0	
CPL	1.5	1.3	0.4	0.3	3.7	
QZ	92.8	5.3	6.8	5.3	5.9	
OL	5.8	93.5	62.8	43.0	6.7	
CPL	3.8	1.3	0.6	0.7	1.0	
OL	15.0	98.0	95.6	95.9	25.7	
PL	8.2	0.7	3.8	5.8	5.3	

Table A-6 Result of Chemical Analysis (Rock), and Norm - 3

Sample No.	DR 38	DR 39	Remarks
Rock Name	Granite	Pegmatite	
Location	771-173	771-173	
SiO2	73.40	79.60	NO. BaO LOI
TiO2	0.10	0.10	DR 38 0.08 0.2
Al2O3	14.90	10.30	DR 39 0.08 0.4
Cr2O3	0.90	1.20	
FeO	0.70	0.40	
MnO	0.40	0.80	
CaO	1.80	1.80	
Na2O	4.30	2.50	
K2O	4.60	0.02	
P2O5	0.04	0.00	
NI	0.00	0.00	
TOTAL	101.17	100.95	
FeO*	( 1.51)	( 1.48)	
FeO*/MgO	3.775	1.850	
Mg/Mg+Fe	0.321	0.491	
FeO/MgO	1.750	0.500	
Mg/Mg+Fe	0.505	0.781	
CIPW NORM (WT)			
OR	28.12	42.27	
AB	27.18	17.74	
AN	3.38	35.50	
AL	0.00	0.00	
ME	0.00	0.00	
CO	0.00	0.00	
NS	0.05	0.08	
SN	0.03	0.03	
DS	0.00	0.00	
NS	0.00	0.00	
HY	0.00	0.00	
EL	0.00	0.00	
FO	0.00	0.00	
FA	0.00	0.00	
TL	0.00	0.00	
JA	0.39	0.19	
SO	0.00	0.42	
HA	0.00	0.06	
MS	0.00	0.00	
TOTAL	97.97	98.06	

Table A-6 Result of Chemical Analysis (Rock), and Norm - 3

Sample No.	DR 38	DR 39	Remarks
	CIPW NORM (MOLE %)		
OR	62.73	75.03	
AB	13.09	5.67	
AN	18.60	14.47	
AL	0.00	0.00	
NE	0.00	0.00	
NU	0.00	0.00	
DI	1.77	2.60	
WE	0.44	0.51	
FE	0.00	0.00	
HY	0.00	0.00	
FO	0.00	0.00	
FA	0.00	0.00	
MT	0.76	0.51	
LA	0.17	0.12	
AP	0.04	0.03	
HW	0.00	0.00	
CS	2.41	0.75	
	0.00	0.00	
	OXIDE RATIO (WT%)		
CAO/AL <sub>2</sub> O <sub>3</sub>	0.12	0.17	
CAO/NA <sub>2</sub> O	0.42	0.43	
HY-EN	0.54	0.37	
	*** RATIO...EALKER ***		
PL	36.9	21.3	
CPX	0.6	2.88	
OL	1.9	0.8	
QZ	60.6	75.0	
OL	37.1	21.9	
QZ	61.0	77.2	
OL	1.9	0.9	
CPX	0.9	3.5	
QZ	96.1	95.4	
OL	3.0	1.1	
CPX	1.5	11.1	
OL	4.8	3.4	
PL	93.7	85.5	

Table A-7 Result of Chemical Analysis (Geochemical Samples)

LIST OF GEOCHEMICAL SAMPLES REGIONAL SURVEY AREA

SER. NO.	SAMPLE NO.	CO-ORDINATE X	CO-ORDINATE Y	BASIN	AU PPB	CU PPM	PB PPM	ZN PPM	F PPM	CR PPM
1	A001	767	165	1	000000000000	130	4	520000000000	510	104
2	A002	767	165	1	000000000000	130	4	520000000000	510	104
3	A003	767	165	1	000000000000	130	4	520000000000	510	104
4	A004	767	165	1	000000000000	130	4	520000000000	510	104
5	A005	767	165	1	000000000000	130	4	520000000000	510	104
6	A006	767	165	1	000000000000	130	4	520000000000	510	104
7	A007	767	165	1	000000000000	130	4	520000000000	510	104
8	A008	767	165	1	000000000000	130	4	520000000000	510	104
9	A009	767	165	1	000000000000	130	4	520000000000	510	104
10	A010	767	165	1	000000000000	130	4	520000000000	510	104
11	A011	767	165	1	000000000000	130	4	520000000000	510	104
12	A012	767	165	1	000000000000	130	4	520000000000	510	104
13	A013	767	165	1	000000000000	130	4	520000000000	510	104
14	A014	767	165	1	000000000000	130	4	520000000000	510	104
15	A015	767	165	1	000000000000	130	4	520000000000	510	104
16	A016	767	165	1	000000000000	130	4	520000000000	510	104
17	A017	767	165	1	000000000000	130	4	520000000000	510	104
18	A018	767	165	1	000000000000	130	4	520000000000	510	104
19	A019	767	165	1	000000000000	130	4	520000000000	510	104
20	A020	767	165	1	000000000000	130	4	520000000000	510	104
21	A021	767	165	1	000000000000	130	4	520000000000	510	104
22	A022	767	165	1	000000000000	130	4	520000000000	510	104
23	A023	767	165	1	000000000000	130	4	520000000000	510	104
24	A024	767	165	1	000000000000	130	4	520000000000	510	104
25	A025	767	165	1	000000000000	130	4	520000000000	510	104
26	A026	767	165	1	000000000000	130	4	520000000000	510	104
27	A027	767	165	1	000000000000	130	4	520000000000	510	104
28	A028	767	165	1	000000000000	130	4	520000000000	510	104
29	A029	767	165	1	000000000000	130	4	520000000000	510	104
30	A030	767	165	1	000000000000	130	4	520000000000	510	104
31	A031	767	165	1	000000000000	130	4	520000000000	510	104
32	A032	767	165	1	000000000000	130	4	520000000000	510	104
33	A033	767	165	1	000000000000	130	4	520000000000	510	104
34	A034	767	165	1	000000000000	130	4	520000000000	510	104
35	A035	767	165	1	000000000000	130	4	520000000000	510	104
36	A036	767	165	1	000000000000	130	4	520000000000	510	104
37	A037	767	165	1	000000000000	130	4	520000000000	510	104
38	A038	767	165	1	000000000000	130	4	520000000000	510	104
39	A039	767	165	1	000000000000	130	4	520000000000	510	104
40	A040	767	165	1	000000000000	130	4	520000000000	510	104
41	A041	767	165	1	000000000000	130	4	520000000000	510	104
42	A042	767	165	1	000000000000	130	4	520000000000	510	104
43	A043	767	165	1	000000000000	130	4	520000000000	510	104
44	A044	767	165	1	000000000000	130	4	520000000000	510	104
45	A045	767	165	1	000000000000	130	4	520000000000	510	104
46	A046	767	165	1	000000000000	130	4	520000000000	510	104
47	A047	767	165	1	000000000000	130	4	520000000000	510	104
48	A048	767	165	1	000000000000	130	4	520000000000	510	104
49	A049	767	165	1	000000000000	130	4	520000000000	510	104
50	A050	767	165	1	000000000000	130	4	520000000000	510	104





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SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN BASIN	AU PPB	CU PPM	PB PPM	ZN PPM	CR PPM	F PPM
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83

LIST OF GEOCHEMICAL SAMPLES  
REGIONAL SURVEY AREA

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SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN BASIN	AU PPB	CU PPM	PB PPM	ZN PPM	CR PPM	F PPM
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83
12M3567K00	4444444444	1900000000	AAAAA	12000	77	177	242	34	83



LIST OF GEOCHEMICAL SAMPLES  
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SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN	AU PPM	PB PPM	ZN PPM	F PPM	CR PPM
401	A401	7600	I	510	628	640	800	117
402	A402	7550	I	510	628	640	800	117
403	A403	7500	I	510	628	640	800	117
404	A404	7450	I	510	628	640	800	117
405	A405	7400	I	510	628	640	800	117
406	A406	7350	I	510	628	640	800	117
407	A407	7300	I	510	628	640	800	117
408	A408	7250	I	510	628	640	800	117
409	A409	7200	I	510	628	640	800	117
410	A410	7150	I	510	628	640	800	117
411	A411	7100	I	510	628	640	800	117
412	A412	7050	I	510	628	640	800	117
413	A413	7000	I	510	628	640	800	117
414	A414	6950	I	510	628	640	800	117
415	A415	6900	I	510	628	640	800	117
416	A416	6850	I	510	628	640	800	117
417	A417	6800	I	510	628	640	800	117
418	A418	6750	I	510	628	640	800	117
419	A419	6700	I	510	628	640	800	117
420	A420	6650	I	510	628	640	800	117
421	B001	7601	X	510	628	640	800	117
422	B002	7551	X	510	628	640	800	117
423	B003	7501	X	510	628	640	800	117
424	B004	7451	X	510	628	640	800	117
425	B005	7401	X	510	628	640	800	117
426	B006	7351	X	510	628	640	800	117
427	B007	7301	X	510	628	640	800	117
428	B008	7251	X	510	628	640	800	117
429	B009	7201	X	510	628	640	800	117
430	B010	7151	X	510	628	640	800	117
431	B011	7101	X	510	628	640	800	117
432	B012	7051	X	510	628	640	800	117
433	B013	7001	X	510	628	640	800	117
434	B014	6951	X	510	628	640	800	117
435	B015	6901	X	510	628	640	800	117
436	B016	6851	X	510	628	640	800	117
437	B017	6801	X	510	628	640	800	117
438	B018	6751	X	510	628	640	800	117
439	B019	6701	X	510	628	640	800	117
440	B020	6651	X	510	628	640	800	117

LIST OF GEOCHEMICAL SAMPLES  
REGIONAL SURVEY AREA

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SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN	AU PPM	CU PPM	PR PPM	ZN PPM	F PPM	CR PPM
451	B021	7602	X	510	640	628	640	800	117
452	B022	7552	X	510	640	628	640	800	117
453	B023	7502	X	510	640	628	640	800	117
454	B024	7452	X	510	640	628	640	800	117
455	B025	7402	X	510	640	628	640	800	117
456	B026	7352	X	510	640	628	640	800	117
457	B027	7302	X	510	640	628	640	800	117
458	B028	7252	X	510	640	628	640	800	117
459	B029	7202	X	510	640	628	640	800	117
460	B030	7152	X	510	640	628	640	800	117
461	B031	7102	X	510	640	628	640	800	117
462	B032	7052	X	510	640	628	640	800	117
463	B033	7002	X	510	640	628	640	800	117
464	B034	6952	X	510	640	628	640	800	117
465	B035	6902	X	510	640	628	640	800	117
466	B036	6852	X	510	640	628	640	800	117
467	B037	6802	X	510	640	628	640	800	117
468	B038	6752	X	510	640	628	640	800	117
469	B039	6702	X	510	640	628	640	800	117
470	B040	6652	X	510	640	628	640	800	117
471	B041	6602	X	510	640	628	640	800	117
472	B042	6552	X	510	640	628	640	800	117
473	B043	6502	X	510	640	628	640	800	117
474	B044	6452	X	510	640	628	640	800	117
475	B045	6402	X	510	640	628	640	800	117
476	B046	6352	X	510	640	628	640	800	117
477	B047	6302	X	510	640	628	640	800	117
478	B048	6252	X	510	640	628	640	800	117
479	B049	6202	X	510	640	628	640	800	117
480	B050	6152	X	510	640	628	640	800	117
481	B051	6102	X	510	640	628	640	800	117
482	B052	6052	X	510	640	628	640	800	117
483	B053	6002	X	510	640	628	640	800	117
484	B054	5952	X	510	640	628	640	800	117
485	B055	5902	X	510	640	628	640	800	117
486	B056	5852	X	510	640	628	640	800	117
487	B057	5802	X	510	640	628	640	800	117
488	B058	5752	X	510	640	628	640	800	117
489	B059	5702	X	510	640	628	640	800	117
490	B060	5652	X	510	640	628	640	800	117
491	B061	5602	X	510	640	628	640	800	117
492	B062	5552	X	510	640	628	640	800	117
493	B063	5502	X	510	640	628	640	800	117
494	B064	5452	X	510	640	628	640	800	117
495	B065	5402	X	510	640	628	640	800	117
496	B066	5352	X	510	640	628	640	800	117
497	B067	5302	X	510	640	628	640	800	117
498	B068	5252	X	510	640	628	640	800	117
499	B069	5202	X	510	640	628	640	800	117
500	B070	5152	X	510	640	628	640	800	117

LIST OF GEOCHEMICAL SAMPLES  
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LIST OF GEOCHEMICAL SAMPLES  
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SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN	AU PPB	CU PPM	PH PPM	ZN PPM	Fe PPM	CR PPM
501	B1331	774	155	00	12	005	497	225	149
502	B1332	774	155	00	13	005	770	185	127
503	B1333	774	155	00	13	005	400	180	127
504	B1334	774	155	00	13	005	420	180	127
505	B1335	774	155	00	13	005	430	180	127
506	B1336	774	155	00	13	005	440	180	127
507	B1337	774	155	00	13	005	450	180	127
508	B1338	774	155	00	13	005	460	180	127
509	B1339	774	155	00	13	005	470	180	127
510	B1340	774	155	00	13	005	480	180	127

SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN	AU PPB	CU PPM	PH PPM	ZN PPM	Fe PPM	CR PPM
511	B1341	774	155	00	13	005	490	180	127
512	B1342	774	155	00	13	005	500	180	127
513	B1343	774	155	00	13	005	510	180	127
514	B1344	774	155	00	13	005	520	180	127
515	B1345	774	155	00	13	005	530	180	127
516	B1346	774	155	00	13	005	540	180	127
517	B1347	774	155	00	13	005	550	180	127
518	B1348	774	155	00	13	005	560	180	127
519	B1349	774	155	00	13	005	570	180	127
520	B1350	774	155	00	13	005	580	180	127

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SER. NO.	SAMPLE NO.	CO-ORDINATE X	CO-ORDINATE Y	DRAIN BASIN	AU PPH	CU PPM	CO PPM	ZN PPM	F PPM	CR PPH
6022	B183	763	188	158	00	226	427	78	175	91
6023	B184	763	188	158	510	230	421	78	122	92
6024	B185	776	192	162	510	229	427	101	122	133
6025	B186	776	191	161	510	217	427	101	122	133
6026	B187	776	191	161	510	220	427	101	122	133
6027	B188	776	191	161	510	222	427	101	122	133
6028	B189	776	190	160	510	222	427	101	122	133
6029	B190	776	190	160	510	222	427	101	122	133
6030	B191	776	190	160	510	222	427	101	122	133
6031	B192	776	190	160	510	222	427	101	122	133
6032	B193	776	190	160	510	222	427	101	122	133
6033	B194	776	190	160	510	222	427	101	122	133
6034	B195	776	190	160	510	222	427	101	122	133
6035	B196	776	190	160	510	222	427	101	122	133
6036	B197	776	190	160	510	222	427	101	122	133
6037	B198	776	190	160	510	222	427	101	122	133
6038	B199	776	190	160	510	222	427	101	122	133
6039	B200	776	190	160	510	222	427	101	122	133
6040	B201	776	190	160	510	222	427	101	122	133
6041	B202	776	190	160	510	222	427	101	122	133
6042	B203	776	190	160	510	222	427	101	122	133
6043	B204	776	190	160	510	222	427	101	122	133
6044	B205	776	190	160	510	222	427	101	122	133
6045	B206	776	190	160	510	222	427	101	122	133
6046	B207	776	190	160	510	222	427	101	122	133
6047	B208	776	190	160	510	222	427	101	122	133
6048	B209	776	190	160	510	222	427	101	122	133
6049	B210	776	190	160	510	222	427	101	122	133
6050	B211	776	190	160	510	222	427	101	122	133
6051	B212	776	190	160	510	222	427	101	122	133
6052	B213	776	190	160	510	222	427	101	122	133
6053	B214	776	190	160	510	222	427	101	122	133
6054	B215	776	190	160	510	222	427	101	122	133
6055	B216	776	190	160	510	222	427	101	122	133
6056	B217	776	190	160	510	222	427	101	122	133
6057	B218	776	190	160	510	222	427	101	122	133
6058	B219	776	190	160	510	222	427	101	122	133
6059	B220	776	190	160	510	222	427	101	122	133
6060	B221	776	190	160	510	222	427	101	122	133
6061	B222	776	190	160	510	222	427	101	122	133
6062	B223	776	190	160	510	222	427	101	122	133
6063	B224	776	190	160	510	222	427	101	122	133
6064	B225	776	190	160	510	222	427	101	122	133
6065	B226	776	190	160	510	222	427	101	122	133
6066	B227	776	190	160	510	222	427	101	122	133
6067	B228	776	190	160	510	222	427	101	122	133
6068	B229	776	190	160	510	222	427	101	122	133
6069	B230	776	190	160	510	222	427	101	122	133
6070	B231	776	190	160	510	222	427	101	122	133
6071	B232	776	190	160	510	222	427	101	122	133
6072	B233	776	190	160	510	222	427	101	122	133
6073	B234	776	190	160	510	222	427	101	122	133
6074	B235	776	190	160	510	222	427	101	122	133
6075	B236	776	190	160	510	222	427	101	122	133
6076	B237	776	190	160	510	222	427	101	122	133
6077	B238	776	190	160	510	222	427	101	122	133
6078	B239	776	190	160	510	222	427	101	122	133
6079	B240	776	190	160	510	222	427	101	122	133
6080	B241	776	190	160	510	222	427	101	122	133

LIST OF GEOCHEMICAL SAMPLES  
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PAGE 1A

SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN BASIN	AU PPM	CU PPM	PB PPM	ZN PPM	F PPM	CR PPM
701	B235	756000	GA	110	175	758	61	122	101
702	B236	756000	GA	110	175	758	61	122	101
703	B237	756000	GA	110	175	758	61	122	101
704	B238	756000	GA	110	175	758	61	122	101
705	B239	756000	GA	110	175	758	61	122	101
706	B240	756000	GA	110	175	758	61	122	101
707	B241	756000	GA	110	175	758	61	122	101
708	B242	756000	GA	110	175	758	61	122	101
709	B243	756000	GA	110	175	758	61	122	101
710	B244	756000	GA	110	175	758	61	122	101
711	B245	756000	GA	110	175	758	61	122	101
712	B246	756000	GA	110	175	758	61	122	101
713	B247	756000	GA	110	175	758	61	122	101
714	B248	756000	GA	110	175	758	61	122	101
715	B249	756000	GA	110	175	758	61	122	101
716	B250	756000	GA	110	175	758	61	122	101
717	B251	756000	GA	110	175	758	61	122	101
718	B252	756000	GA	110	175	758	61	122	101
719	B253	756000	GA	110	175	758	61	122	101
720	B254	756000	GA	110	175	758	61	122	101
721	B255	756000	GA	110	175	758	61	122	101
722	B256	756000	GA	110	175	758	61	122	101
723	B257	756000	GA	110	175	758	61	122	101
724	B258	756000	GA	110	175	758	61	122	101
725	B259	756000	GA	110	175	758	61	122	101
726	B260	756000	GA	110	175	758	61	122	101
727	B261	756000	GA	110	175	758	61	122	101
728	B262	756000	GA	110	175	758	61	122	101
729	B263	756000	GA	110	175	758	61	122	101
730	B264	756000	GA	110	175	758	61	122	101
731	B265	756000	GA	110	175	758	61	122	101
732	B266	756000	GA	110	175	758	61	122	101
733	B267	756000	GA	110	175	758	61	122	101
734	B268	756000	GA	110	175	758	61	122	101
735	B269	756000	GA	110	175	758	61	122	101
736	B270	756000	GA	110	175	758	61	122	101
737	B271	756000	GA	110	175	758	61	122	101
738	B272	756000	GA	110	175	758	61	122	101
739	B273	756000	GA	110	175	758	61	122	101
740	B274	756000	GA	110	175	758	61	122	101
741	B275	756000	GA	110	175	758	61	122	101
742	B276	756000	GA	110	175	758	61	122	101
743	B277	756000	GA	110	175	758	61	122	101
744	B278	756000	GA	110	175	758	61	122	101
745	B279	756000	GA	110	175	758	61	122	101
746	B280	756000	GA	110	175	758	61	122	101
747	B281	756000	GA	110	175	758	61	122	101
748	B282	756000	GA	110	175	758	61	122	101
749	B283	756000	GA	110	175	758	61	122	101
750	B284	756000	GA	110	175	758	61	122	101

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LIST OF GEOCHEMICAL SAMPLES  
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SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN BASIN	AU PPM	CU PPM	PB PPM	ZN PPM	F PPM	CR PPM
751	B285	756000	GA	110	175	758	61	122	101
752	B286	756000	GA	110	175	758	61	122	101
753	B287	756000	GA	110	175	758	61	122	101
754	B288	756000	GA	110	175	758	61	122	101
755	B289	756000	GA	110	175	758	61	122	101
756	B290	756000	GA	110	175	758	61	122	101
757	B291	756000	GA	110	175	758	61	122	101
758	B292	756000	GA	110	175	758	61	122	101
759	B293	756000	GA	110	175	758	61	122	101
760	B294	756000	GA	110	175	758	61	122	101
761	B295	756000	GA	110	175	758	61	122	101
762	B296	756000	GA	110	175	758	61	122	101
763	B297	756000	GA	110	175	758	61	122	101
764	B298	756000	GA	110	175	758	61	122	101
765	B299	756000	GA	110	175	758	61	122	101
766	B300	756000	GA	110	175	758	61	122	101
767	B301	756000	GA	110	175	758	61	122	101
768	B302	756000	GA	110	175	758	61	122	101
769	B303	756000	GA	110	175	758	61	122	101
770	B304	756000	GA	110	175	758	61	122	101
771	B305	756000	GA	110	175	758	61	122	101
772	B306	756000	GA	110	175	758	61	122	101
773	B307	756000	GA	110	175	758	61	122	101
774	B308	756000	GA	110	175	758	61	122	101
775	B309	756000	GA	110	175	758	61	122	101
776	B310	756000	GA	110	175	758	61	122	101
777	B311	756000	GA	110	175	758	61	122	101
778	B312	756000	GA	110	175	758	61	122	101
779	B313	756000	GA	110	175	758	61	122	101
780	B314	756000	GA	110	175	758	61	122	101
781	B315	756000	GA	110	175	758	61	122	101
782	B316	756000	GA	110	175	758	61	122	101
783	B317	756000	GA	110	175	758	61	122	101
784	B318	756000	GA	110	175	758	61	122	101
785	B319	756000	GA	110	175	758	61	122	101
786	B320	756000	GA	110	175	758	61	122	101
787	B321	756000	GA	110	175	758	61	122	101
788	B322	756000	GA	110	175	758	61	122	101
789	B323	756000	GA	110	175	758	61	122	101
790	B324	756000	GA	110	175	758	61	122	101
791	B325	756000	GA	110	175	758	61	122	101
792	B326	756000	GA	110	175	758	61	122	101
793	B327	756000	GA	110	175	758	61	122	101
794	B328	756000	GA	110	175	758	61	122	101
795	B329	756000	GA	110	175	758	61	122	101
796	B330	756000	GA	110	175	758	61	122	101
797	B331	756000	GA	110	175	758	61	122	101
798	B332	756000	GA	110	175	758	61	122	101
799	B333	756000	GA	110	175	758	61	122	101
800	B334	756000	GA	110	175	758	61	122	101

LIST OF GEOCHEMICAL SAMPLES  
REGIONAL SURVEY AREA

SER. NO.	SAMPLE NO.	CO-ORDINATE X	Y	DRAIN BASIN	AU PPB	CU PPM	PB PPM	ZN PPM	F PPM	CA PPM
8527	333	01	144	X	00	00	00	00	00	74
8528	334	01	145	X	00	00	00	00	00	75
8529	335	01	146	X	00	00	00	00	00	76
8530	336	01	147	X	00	00	00	00	00	77
8531	337	01	148	X	00	00	00	00	00	78
8532	338	01	149	X	00	00	00	00	00	79
8533	339	01	150	X	00	00	00	00	00	80
8534	340	01	151	X	00	00	00	00	00	81
8535	341	01	152	X	00	00	00	00	00	82
8536	342	01	153	X	00	00	00	00	00	83
8537	343	01	154	X	00	00	00	00	00	84
8538	344	01	155	X	00	00	00	00	00	85
8539	345	01	156	X	00	00	00	00	00	86
8540	346	01	157	X	00	00	00	00	00	87
8541	347	01	158	X	00	00	00	00	00	88
8542	348	01	159	X	00	00	00	00	00	89
8543	349	01	160	X	00	00	00	00	00	90
8544	350	01	161	X	00	00	00	00	00	91
8545	351	01	162	X	00	00	00	00	00	92
8546	352	01	163	X	00	00	00	00	00	93
8547	353	01	164	X	00	00	00	00	00	94
8548	354	01	165	X	00	00	00	00	00	95
8549	355	01	166	X	00	00	00	00	00	96
8550	356	01	167	X	00	00	00	00	00	97
8551	357	01	168	X	00	00	00	00	00	98
8552	358	01	169	X	00	00	00	00	00	99
8553	359	01	170	X	00	00	00	00	00	100

LIST OF GEOCHEMICAL SAMPLES  
REGIONAL SURVEY AREA

SER. NO.	SAMPLE NO.	CO-ORDINATE X	Y	DRAIN BASIN	AU PPB	CU PPM	PB PPM	ZN PPM	F PPM	CA PPM
8554	360	01	171	X	00	00	00	00	00	101
8555	361	01	172	X	00	00	00	00	00	102
8556	362	01	173	X	00	00	00	00	00	103
8557	363	01	174	X	00	00	00	00	00	104
8558	364	01	175	X	00	00	00	00	00	105
8559	365	01	176	X	00	00	00	00	00	106
8560	366	01	177	X	00	00	00	00	00	107
8561	367	01	178	X	00	00	00	00	00	108
8562	368	01	179	X	00	00	00	00	00	109
8563	369	01	180	X	00	00	00	00	00	110
8564	370	01	181	X	00	00	00	00	00	111
8565	371	01	182	X	00	00	00	00	00	112
8566	372	01	183	X	00	00	00	00	00	113
8567	373	01	184	X	00	00	00	00	00	114
8568	374	01	185	X	00	00	00	00	00	115
8569	375	01	186	X	00	00	00	00	00	116
8570	376	01	187	X	00	00	00	00	00	117
8571	377	01	188	X	00	00	00	00	00	118
8572	378	01	189	X	00	00	00	00	00	119
8573	379	01	190	X	00	00	00	00	00	120
8574	380	01	191	X	00	00	00	00	00	121
8575	381	01	192	X	00	00	00	00	00	122
8576	382	01	193	X	00	00	00	00	00	123
8577	383	01	194	X	00	00	00	00	00	124
8578	384	01	195	X	00	00	00	00	00	125
8579	385	01	196	X	00	00	00	00	00	126
8580	386	01	197	X	00	00	00	00	00	127
8581	387	01	198	X	00	00	00	00	00	128
8582	388	01	199	X	00	00	00	00	00	129
8583	389	01	200	X	00	00	00	00	00	130

LIST OF GEOCHEMICAL SAMPLES  
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SER. NO.	SAMPLE NO.	COORDINATE	DRAIN	AU PPM	CU PPM	PB PPM	ZN PPM	F PPM	CR PPM
0523	0000000000	751	X	00	12	60	52	193	02
0524	0000000000	752	X	00	13	60	52	193	02
0525	0000000000	753	X	00	13	60	52	193	02
0526	0000000000	754	X	00	13	60	52	193	02
0527	0000000000	755	X	00	13	60	52	193	02
0528	0000000000	756	X	00	13	60	52	193	02
0529	0000000000	757	X	00	13	60	52	193	02
0530	0000000000	758	X	00	13	60	52	193	02
0531	0000000000	759	X	00	13	60	52	193	02
0532	0000000000	760	X	00	13	60	52	193	02
0533	0000000000	761	X	00	13	60	52	193	02
0534	0000000000	762	X	00	13	60	52	193	02
0535	0000000000	763	X	00	13	60	52	193	02
0536	0000000000	764	X	00	13	60	52	193	02
0537	0000000000	765	X	00	13	60	52	193	02
0538	0000000000	766	X	00	13	60	52	193	02
0539	0000000000	767	X	00	13	60	52	193	02
0540	0000000000	768	X	00	13	60	52	193	02
0541	0000000000	769	X	00	13	60	52	193	02
0542	0000000000	770	X	00	13	60	52	193	02
0543	0000000000	771	X	00	13	60	52	193	02
0544	0000000000	772	X	00	13	60	52	193	02
0545	0000000000	773	X	00	13	60	52	193	02
0546	0000000000	774	X	00	13	60	52	193	02
0547	0000000000	775	X	00	13	60	52	193	02
0548	0000000000	776	X	00	13	60	52	193	02
0549	0000000000	777	X	00	13	60	52	193	02
0550	0000000000	778	X	00	13	60	52	193	02
0551	0000000000	779	X	00	13	60	52	193	02
0552	0000000000	780	X	00	13	60	52	193	02

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SER. NO.	SAMPLE NO.	COORDINATE	DRAIN	AU PPM	CU PPM	PB PPM	ZN PPM	F PPM	CR PPM
0123	0000000000	723	X	00	12	60	80	160	03
0124	0000000000	724	X	00	12	60	80	160	03
0125	0000000000	725	X	00	12	60	80	160	03
0126	0000000000	726	X	00	12	60	80	160	03
0127	0000000000	727	X	00	12	60	80	160	03
0128	0000000000	728	X	00	12	60	80	160	03
0129	0000000000	729	X	00	12	60	80	160	03
0130	0000000000	730	X	00	12	60	80	160	03
0131	0000000000	731	X	00	12	60	80	160	03
0132	0000000000	732	X	00	12	60	80	160	03
0133	0000000000	733	X	00	12	60	80	160	03
0134	0000000000	734	X	00	12	60	80	160	03
0135	0000000000	735	X	00	12	60	80	160	03
0136	0000000000	736	X	00	12	60	80	160	03
0137	0000000000	737	X	00	12	60	80	160	03
0138	0000000000	738	X	00	12	60	80	160	03
0139	0000000000	739	X	00	12	60	80	160	03
0140	0000000000	740	X	00	12	60	80	160	03
0141	0000000000	741	X	00	12	60	80	160	03
0142	0000000000	742	X	00	12	60	80	160	03
0143	0000000000	743	X	00	12	60	80	160	03
0144	0000000000	744	X	00	12	60	80	160	03
0145	0000000000	745	X	00	12	60	80	160	03
0146	0000000000	746	X	00	12	60	80	160	03
0147	0000000000	747	X	00	12	60	80	160	03
0148	0000000000	748	X	00	12	60	80	160	03
0149	0000000000	749	X	00	12	60	80	160	03
0150	0000000000	750	X	00	12	60	80	160	03
0151	0000000000	751	X	00	12	60	80	160	03
0152	0000000000	752	X	00	12	60	80	160	03
0153	0000000000	753	X	00	12	60	80	160	03
0154	0000000000	754	X	00	12	60	80	160	03
0155	0000000000	755	X	00	12	60	80	160	03
0156	0000000000	756	X	00	12	60	80	160	03
0157	0000000000	757	X	00	12	60	80	160	03
0158	0000000000	758	X	00	12	60	80	160	03
0159	0000000000	759	X	00	12	60	80	160	03
0160	0000000000	760	X	00	12	60	80	160	03
0161	0000000000	761	X	00	12	60	80	160	03
0162	0000000000	762	X	00	12	60	80	160	03
0163	0000000000	763	X	00	12	60	80	160	03
0164	0000000000	764	X	00	12	60	80	160	03
0165	0000000000	765	X	00	12	60	80	160	03
0166	0000000000	766	X	00	12	60	80	160	03
0167	0000000000	767	X	00	12	60	80	160	03
0168	0000000000	768	X	00	12	60	80	160	03
0169	0000000000	769	X	00	12	60	80	160	03
0170	0000000000	770	X	00	12	60	80	160	03



















LIST OF GEOCHEMICAL SAMPLES  
AREA-R

PAGE 1

SER. NO.	SAMPLE NO.	CO-ORDINATE	DRAIN	NS PPM	TA PPM	LI PPM	SN PPM	U PPM	K PPM
1	12	7522	7522	0000	0000	0000	0000	0000	0000
2	13	7523	7523	0000	0000	0000	0000	0000	0000
3	14	7524	7524	0000	0000	0000	0000	0000	0000
4	15	7525	7525	0000	0000	0000	0000	0000	0000
5	16	7526	7526	0000	0000	0000	0000	0000	0000
6	17	7527	7527	0000	0000	0000	0000	0000	0000
7	18	7528	7528	0000	0000	0000	0000	0000	0000
8	19	7529	7529	0000	0000	0000	0000	0000	0000
9	20	7530	7530	0000	0000	0000	0000	0000	0000
10	21	7531	7531	0000	0000	0000	0000	0000	0000
11	22	7532	7532	0000	0000	0000	0000	0000	0000
12	23	7533	7533	0000	0000	0000	0000	0000	0000
13	24	7534	7534	0000	0000	0000	0000	0000	0000
14	25	7535	7535	0000	0000	0000	0000	0000	0000
15	26	7536	7536	0000	0000	0000	0000	0000	0000
16	27	7537	7537	0000	0000	0000	0000	0000	0000
17	28	7538	7538	0000	0000	0000	0000	0000	0000
18	29	7539	7539	0000	0000	0000	0000	0000	0000
19	30	7540	7540	0000	0000	0000	0000	0000	0000
20	31	7541	7541	0000	0000	0000	0000	0000	0000
21	32	7542	7542	0000	0000	0000	0000	0000	0000
22	33	7543	7543	0000	0000	0000	0000	0000	0000
23	34	7544	7544	0000	0000	0000	0000	0000	0000
24	35	7545	7545	0000	0000	0000	0000	0000	0000
25	36	7546	7546	0000	0000	0000	0000	0000	0000
26	37	7547	7547	0000	0000	0000	0000	0000	0000
27	38	7548	7548	0000	0000	0000	0000	0000	0000
28	39	7549	7549	0000	0000	0000	0000	0000	0000
29	40	7550	7550	0000	0000	0000	0000	0000	0000
30	41	7551	7551	0000	0000	0000	0000	0000	0000
31	42	7552	7552	0000	0000	0000	0000	0000	0000
32	43	7553	7553	0000	0000	0000	0000	0000	0000
33	44	7554	7554	0000	0000	0000	0000	0000	0000
34	45	7555	7555	0000	0000	0000	0000	0000	0000
35	46	7556	7556	0000	0000	0000	0000	0000	0000
36	47	7557	7557	0000	0000	0000	0000	0000	0000
37	48	7558	7558	0000	0000	0000	0000	0000	0000
38	49	7559	7559	0000	0000	0000	0000	0000	0000
39	50	7560	7560	0000	0000	0000	0000	0000	0000
40	51	7561	7561	0000	0000	0000	0000	0000	0000
41	52	7562	7562	0000	0000	0000	0000	0000	0000
42	53	7563	7563	0000	0000	0000	0000	0000	0000
43	54	7564	7564	0000	0000	0000	0000	0000	0000
44	55	7565	7565	0000	0000	0000	0000	0000	0000
45	56	7566	7566	0000	0000	0000	0000	0000	0000
46	57	7567	7567	0000	0000	0000	0000	0000	0000
47	58	7568	7568	0000	0000	0000	0000	0000	0000
48	59	7569	7569	0000	0000	0000	0000	0000	0000
49	60	7570	7570	0000	0000	0000	0000	0000	0000
50	61	7571	7571	0000	0000	0000	0000	0000	0000
51	62	7572	7572	0000	0000	0000	0000	0000	0000
52	63	7573	7573	0000	0000	0000	0000	0000	0000
53	64	7574	7574	0000	0000	0000	0000	0000	0000
54	65	7575	7575	0000	0000	0000	0000	0000	0000
55	66	7576	7576	0000	0000	0000	0000	0000	0000
56	67	7577	7577	0000	0000	0000	0000	0000	0000
57	68	7578	7578	0000	0000	0000	0000	0000	0000
58	69	7579	7579	0000	0000	0000	0000	0000	0000
59	70	7580	7580	0000	0000	0000	0000	0000	0000
60	71	7581	7581	0000	0000	0000	0000	0000	0000
61	72	7582	7582	0000	0000	0000	0000	0000	0000
62	73	7583	7583	0000	0000	0000	0000	0000	0000
63	74	7584	7584	0000	0000	0000	0000	0000	0000
64	75	7585	7585	0000	0000	0000	0000	0000	0000
65	76	7586	7586	0000	0000	0000	0000	0000	0000
66	77	7587	7587	0000	0000	0000	0000	0000	0000
67	78	7588	7588	0000	0000	0000	0000	0000	0000
68	79	7589	7589	0000	0000	0000	0000	0000	0000
69	80	7590	7590	0000	0000	0000	0000	0000	0000
70	81	7591	7591	0000	0000	0000	0000	0000	0000
71	82	7592	7592	0000	0000	0000	0000	0000	0000
72	83	7593	7593	0000	0000	0000	0000	0000	0000
73	84	7594	7594	0000	0000	0000	0000	0000	0000
74	85	7595	7595	0000	0000	0000	0000	0000	0000
75	86	7596	7596	0000	0000	0000	0000	0000	0000
76	87	7597	7597	0000	0000	0000	0000	0000	0000
77	88	7598	7598	0000	0000	0000	0000	0000	0000
78	89	7599	7599	0000	0000	0000	0000	0000	0000
79	90	7600	7600	0000	0000	0000	0000	0000	0000
80	91	7601	7601	0000	0000	0000	0000	0000	0000
81	92	7602	7602	0000	0000	0000	0000	0000	0000
82	93	7603	7603	0000	0000	0000	0000	0000	0000
83	94	7604	7604	0000	0000	0000	0000	0000	0000
84	95	7605	7605	0000	0000	0000	0000	0000	0000
85	96	7606	7606	0000	0000	0000	0000	0000	0000
86	97	7607	7607	0000	0000	0000	0000	0000	0000
87	98	7608	7608	0000	0000	0000	0000	0000	0000
88	99	7609	7609	0000	0000	0000	0000	0000	0000
89	100	7610	7610	0000	0000	0000	0000	0000	0000







