

Appendix – 1 ~ 14

Appendix-1 Collected literatures for the existing data analysis, sorted in order of category and year.

No.	Title	Language	Author	Year	Organization	Category	Comments
1	Argentina Mining Sector Review 1993	English		1993	World Bank	Argentina	Mining activities report
2	Directory of Mining Investment Opportunities in the Argentina Republic	English		1993	Mining Secretary, Ministry of Economy and Public Services	Argentina	Deposits in each province, Geological maps, Climate, Topographical sections
3	Depositos y Manifestaciones Minerales de la Cordillera Patagonica y Fueguina, Republica Argentina	Spanish		1994	Secretaria de Minería de la Nación	Argentina	Location map of deposits in Chubut, Santa Cruz, Tierra del Fuego
4	Encuentro Intermacional de Minería, ACTAS	Spanish		1994	Secretaria de Minería de la Nación	Argentina	Technical papers
5	Annual Reort 1995, Eldorado Gold Corpration	English		1995	Erdrado Gold Corporation	Argentina	Andes project in Catamarca
6	Environment for mining development in Argentina	Japanese		1995	MERIC, MMAJ	Argentina	Country report
7	Geologia y Matalogenesis del Orogeno Andino Central	Spanish	Mendez, V., Zanettini, J.C. and Zappettini, E.O.	1995	SEGEMAR	Argentina	Note on geological map of 32°to 40°Central Andean area (1/400,000).
8	Geologia y Metalogenesis del Orogeno Andino Cenral, Republica Argentino	Spanish	Mendez, V., Zanettini, J.C. and Zappettini, E.O.	1995	SEGEMAR	Argentina	Note on geological map of 32°to 40°Central Andean area (1/400,000).
9	Geologia y Metalogenesis del Orogeno Andino Cenral, Republica Argentino	Spanish	Mendez, V., Zanettini, J.C. and Zappettini, E.O.	1995	SEGEMAR	Argentina	Geological map of 32°to 40°Central Andean area (1/400,000).
10	Argentina Mining '96, A New Frontier Opportunity	English		1996	Engineering & Mining Journal, Latinomineria	Argentina	Investment promotion
11	Argentina's Mining Sector 1997	English		1997	Ministry of Economy and Public Works and Services	Argentina	Mining ativities
12	Estadistica de la Produccion Minera de la Republica Argentina	Spanish		1997	Subsecretaria de Minería	Argentina	Mining production statistics
13	Estadistica Minera de la Republica Argentina, 1994-1996	Spanish		1997	Direccion de Evaluacion Minera	Argentina	Mining statistics
14	Sector Minero Argentina 1977	Spanish		1997	Ministrerio de Economía y Obras y Servicios Publicos	Argentina	Mining activities
15	Argentina's Mining Sector	Spanish/English		1998	Ministrerio de Economía y Obras y Servicios Publicos	Argentina	Outline of mining activities.

No.	Title	Language	Author	Year	Organization	Category	Comments
16	Argentina's Mining Sector 1998	Spanish		1998	Ministerio de Economia y Obras y Servicios Publicos	Argentina	Mining activities
17	Mineria Argentina, La Calidad como Filosofia	Spanish		1998	Subsecretaria de Minería	Argentina	Mining policy
18	Mining Right Information (La Rioja, Mendoza, San Juan)	English	Lavandario, E.	1998	SEGEMAR	Argentina	Letter. Mining Right Information
19	X Congreso Latinoamericano de geología, VI Congreso Nacional de Geología Económica	Spanish		1998	Subsecretaria de Minería de la Nación, Servicio Geológico Minero Argentina, Asociación Argentina de Geólogos Economistas	Argentina	Proceeding of the geological conference
20	Compendio 1999/2000 de las Industrias de Base Mineral y de la Minería Argentina	Spanish		1999	Panorama Minero	Argentina	Mining magazine for mining activities
21	Panorama Minero	Spanish		1999	Una Organización Periodística al servicio de la Minería	Argentina	Andacollo project etc.
22	Panorama Minero	Spanish		1999	Panorama Minero	Argentina	Mining magazine in Argentina
23	Geomapa. República Argentina	Spanish		??		Argentina	Map of Argentina 1/3,500,000
24	Legal and Tax Framework	Spanish		??		Argentina	Mining law and Revenue law
25	Marco Jurídico Ambiental para la Actividad Minera	Spanish		?	Unidad de Gestión Ambiental Nacional	Argentina	Environmental law
26	Rutas de la Argentina	Spanish		?	Automapa	Argentina	Road maps
27	Index of 1:250,000 topography maps	Spanish				Argentina	Index map of 1/250,000
28	Características y Edad del Plutonismo en los Alrededores del Lago Puelo, Provincia del Chubut	Spanish	Lizuain, A.	1981	Servicio Geológico Nacional	Chubut	Age of plutonic rocks of Cordillera Patagonia.
29	Investigaciones Detalladas del Cateo Huemules, Informe Final: Parte I	Spanish		1983	United Nations Revolving Fund for Natural Resources Exploration	Chubut	Final report of UNRF project (1977-1982)
30	Mineralización asociada a diques terciarios de Dacita-Andesita-Basalto en la Cordillera Patagónica Septentrional y Central, Provincias de Río Negro y Chubut	Spanish	Genini, A.D., Griznik, M. and Pezzuchi, H.D.	1989	Dir. Nac. Min. y Geol. Centro Explor. Patag. Sur y Dept. Geología - Univ. Nac. de la Patagonia San Juan Bosco	Chubut	Mineralization model.

Appendix-1 Collected literatures for the existing data analysis, sorted in order of category and year.

3/13

No.	Title	Language	Author	Year	Organization	Category	Comments
31	Mapa Geologico de la Provincia del Chubut	Spanish		1995	Direccion Nacional del Servicio geologico	Chubut	Provincial geological map
32	Mapa Geologico Simplificado de la Cordillera de la Provincia del Chubut	Spanish	Marquez, M.J.	1999	Servicio Nacional Minero Geologia	Chubut	Outline geology of cordillera area of Chubut province.
33	Properties map of Chubut Province (4 pc.)	Spanish		1999	Com. Rivadavia, SEGEMAR	Chubut	Properties map of Chubut Province.
34	Mapa de ubicacion de UNRF project	Spanish		??		Chubut	Location maps of Gaste, Esquel-Corcovado, Lagos Fontana-La Plata areas
35	Provincia Chubut, Geochemica de Rocas/Sedimentos/Suelo	Spanish		??		Chubut	Geochemical survey in Chubut province
36	Indexof 1:100,000 topography maps, Provincia del Chubut	Spanish				Chubut	Index map of 1/100,000. Chubut.
37	Metalogenesis de la region Apeleg-Alto Rio Sebuerr, Chubut	Spanish	Lanfranchini, M.E., Etcheverry, R.O. and Schlamuk, I.B.	1999	XIV Congreso Geologico Argentino	Chubut (Apeleg)	Alotation and mineralization in Apeleg-Alt Rio Senguerr district
38	Informe expeditivo, proyect Arroyo Cascada	Spanish	Genini, A. and Zubia, M.	1989	SEGEMAR	Chubut (Arroyo Cascada)	Mineral exploration report, Au mineralization
39	Estudio de las Alteraciones en el Cerro Coihue. Provincia del Chubut. Republica Argentina	Spanish	Genini, A. and Nillni, A.	1994	Universidad nacional de la Patagonia San Juan Bosco	Chubut (Cerro Coihue)	Investigation on alteration of Cerro Coihue deposits
40	Informe Preliminar Proyect 04 HA. Epuyen. Area No 8. Cerro Coihue	Spanish	Genini, A. and Grizinic, M.	1999	Delegacion Regional Patagonia, SEGEMAR	Chubut (Cerro Coihue)	Outline of Cerro Coihue deposits, vein-type, pyritization with Cu-Mo mineralization
41	Geologia y Mineralizacion del Sector Suroriental del Cerro Coihue, Provincia del Chubut	Spanish		?	Secretaria de Estado de Minería y Universidad Nacional de la Patagonia San Juan Basco	Chubut (Cerro Coihue)	Outline of Cerro Coihue deposits.
42	Mapa Geologico Minero del Arroyo de los Alevinos · Lago Fontana, Provincia del Chubut.	Spanish	Marquez, M.J. y Parisi, C.	1995	SEGEMAR	Chubut (Cerro Colorado)	Geological map of the area of Cerro Colorado
43	El prospect aurifero Cerro Colorado, Chubut	Spanish	Perez, H.D. and Sureda, R.J.	1999	XIV Congreso Geologico Argentino	Chubut (Cerro Colorado)	Discovery of high sulfidation gold deposit
44	Estudio geologico en la Republica Argentina, Fase IV, Sector Cerro Cuche	Spanish		1981	JICA/MMAJ, Secretaria de Estado de Minería	Chubut (Cerro Cuche)	Mineral exploration report, porphyry Cu type alteration
45	Informe geofisico, sector Cerro Gonzalo and Arroyo Luque, area reserva No. 29 Cordon Caquel	Spanish	Pancetti, N.	1984	SEGEMAR	Chubut (Cerro Gonzalo)	Mineral exploration report, IP and EM Turam methods

No.	Title	Language	Author	Year	Organization	Category	Comments
46	Estudio preliminar, sector No. 2 - Cerro Gonzalo, area No. 29 - Cordon Caquel, proyect 04 HC - Tevelin	Spanish	Marquez, M.J.	1985	SEGEMAR	Chubut (Cerro Gonzalo)	Mineral exploration report, geological works
47	Proyect de exploracion, sector 2 - Cerro Gonzalo, area Cordon Caquel, 04 HC - Trevelin Chubut	Spanish	Marquez, M.J.	1988	SEGEMAR	Chubut (Cerro Gonzalo)	Mineral exploration report, drilling survey results
48	Proyect 04 HC Area Cordon caquel, Bosquejo Geologico entre Arroyo Luque y Arroyo el Rapid.	Spanish			SEGEMAR	Chubut (Cerro Gonzalo)	Geological map of the area of Arroyo Luque - Cerro Gonzalo
49	Estudio Geologico-Minero del Yacimiento Cuprifero "Condorcanqui"	Spanish	Tabacchi, M.H.	1953		Chubut (Condorcanqui)	Outline of Condorcanqui deposit, Low Cu grades.
50	Reconocimient Geologico Area Epuyen, Prov. Del Chubut	Spanish	Genini, A.	1976	S.N.M., P.P.C.	Chubut (Condorcanqui)	Outline of Condorcanqui deposits, 4,400t reserves by FM's drillings.
51	Mineralizacion de Cobre Asociada al Plutonismo Terciario en la Zona de la Mina Condorcanqui, Provincia de Chubut	Spanish	Silva, A., Beatriz, C., Eva, D. and Norra, P.	1979	Secretaria de Estada de Minelia, Ministerio de Economia	Chubut (Condorcanqui)	Geochemical survey for Condorcanqui deposit area.
52	Geologia de la Cordillera Patagonia entre las localizadas de Lago Puelo y Leleque, Provincia del Chubut	Spanish	Lizuain, A.	1983	Universidad de Buenos Aires	Chubut (Condorcanqui, Epuyen)	Geological research report
53	Geologia y Area de Alteracion en el Cerro Colorado y Alrededores. Chubut Noroccidental	Spanish	Sepulveda, E.G. and Viera, R.M.	1980	Asociacion Geologica Argentina, Revista XXXV (2) 195-202	Chubut (Esquel NW)	Technical paper, alteration with possibility of porphyry copper deposit
54	Informe Preliminar sobre la Prospeccion Reginal del Cordon de Esquel, Proyect 04 HB Esquel	Spanish	Herrero, J.C.	1982	Servicio Nacional Minero Geologia	Chubut (Esquel)	Field survey report, inc. 1/100,000 geological map
55	Informe Proyect Cordon Situacion, Centro de Exploracion Patagonia Sur	Spanish	Marquez, M., Parisi, C. and Butron, F.	1987	Direccion Nacional de Mineraria y Geologia, Secretaria de Mineraria	Chubut (Esquel)	Field survey-report, inc. 1/2,000 route map
56	Informe Proyecto 04, HB, Esquel. Plan Patagonia Comaue Geologico Minero	Spanish		1997	Servicio Nacional Minero Geologico	Chubut (Esquel)	Field survey report with mineral occurrences, inc. 1/100,000 maps
57	Annual report and Financil Statements for the year ended 31 December 1998	English		1999	Brancote Holding PLC	Chubut (Hoya del Sol)	Annual report of 1998
58	Geologia-Reservas y Modelo Teorico de Estructuras Mineralizadas del Yacimiento de Oro Huemules	Spanish	Viera, R., Herrero, J.C. and Hughes, G.E.	1982	Direccion General de Minas y Geologia Provincia Chubut	Chubut (Huemules)	Hemules deposit, 0.02 to 815g/t Au, guide for galleries.
59	Investigaciones Detalladas del Cateo Humules, Informe Final: Parte II	Spanish		1983	Fond Rotatorio de las Naciones Unidas para la Exploracion de Recursos Naturales	Chubut (Huemules)	Final report of UNRF project (1977-1982) for Huemules deposit.
60	Mapas anexas de Informe Final Parte II	Spanish		1983	Fond Rotatorio de las Naciones Unidas para la Exploracion de Recursos Naturales	Chubut (Huemules)	Plans of final report of UNRF project (1977-1982) for Huemules deposit.

Appendix-1 Collected literatures for the existing data analysis, sorted in order of category and year.

5/13

No.	Title	Language	Author	Year	Organization	Category	Comments
61	Proyect Huemules (Provincia de Chubut)	Spanish		1984	Ministerio de Economia, Servicios y Obras Publicas/Subsecretaria de Promocion y Desarrollo/Provincia del Chubut	Chubut (Huemules)	Abstract of UNRF project. Huemules deposit, 2,975,000t (10.3g/t Au, <1,000,000t)
62	El Prospecto Huemules, Cordon Oriental del Futalaufquen, Chubut, Argentina	Spanish	Viera, R.L.M. and Hughes, G.	1999	SEGMAR, Direccion de Minas y Geologia del Chubut	Chubut (Huemules)	Huemules deposit, 750,000t, 9g/t Au.
63	Mineralogia del yacimiento polimetarico Huemules, Cordillera Patagonia Septentrional, Chubut	Spanish	Schalamuk, I., Bario, R.E. and Vasconcellos, M.	1999	XIV Congreso Geologico Argentino	Chubut (Huemules)	Mineralogy, fluid inclusion and isotopic data
64	Informe Preliminar Proyecto 04 HA "Lago Epuyen"	Spanish	Beltramone, C.A.	1978	Plan Patagonia Comahue, Subseda los Alamos	Chubut (Lago Epuyen)	Five alteration zones, geochemical survey, Cu max 320ppm.
65	Proyecto Lago Fontana, Chubut	Spanish	Silvia Ametrano	1885	Secretaria de Mineria	Chubut (Lago Fontana)	Detailed survey report, 700,000t reserves, 1.63% Pb, 4.49% Zn, 0.61% Cu
66	No Title (Lago Fontana y otros)	Spanish		1951		Chubut (Lago Fontana)	Survey for mineral occurrences of Chubut and Santa Cruz.
67	Genesis y Geoquimica de la Mineralizacion de los Yacimientos "Los Manantiales y Lago Fontana", Provincia del Chubut	Spanish	Dominguez, E.A.	1981	Asociacion Geologica Argentina, Revista, XXXVI (2) : 123-142.	Chubut (Lago Fontana)	Study on the genesis of Los Manantiales deposit and Lago Fontana deposit
68	Informe Geologico Preliminar, Lago Fontana Sur	Spanish	Marquez, M.J. and Parisi, C.	1994		Chubut (Lago Fontana)	Survey for mineral occurrences, Arroyo Cangan is thought to be promising.
69	Informe de Avance Programa Cordillea Patagonica Area Arroyo Canogas	Spanish	Marquez, M.J. and Parisi, C.	1995	Delegacion Regional Patagonia, Direccion Nacional del Servicio Geologico	Chubut (Lago Fontana)	Geology and mineralization of Arroyo Canogas area.
70	Informe de Avance Programa Cordillea Patagonica Area Katterfeld	Spanish	Marquez, M.J.	1995	Delegacion Regional Patagonia, Direccion Nacional del Servicio Geologico	Chubut (Lago Fontana)	Geology and mineralization of Katterfeld area.
71	Yacimientos de Oro y Plata de la Patagonia, Republica Argentina, Principales Posibilidades de Inversion	Spanish		1997	SEGEMAR	Chubut (Lago Fontana)	La Ilision Propiedad(Zn,Pb,Ag,Au). Cerro Colorado propiedad (Au 7.95g/t)
72	Informe Preliminar de la Hoja 45a, Lago General Vintter	Spanish	Pesce, A.H.	1976	Servicio Nacional Minero Geologia	Chubut (Lago Grl. Vintter)	Field survey report, inc 1/200,000 geological map
73	Estratigrafia de la Cordillera Patagonica entre los de 43° 30' y 44° de latitud sur y sus areas Mineralizadas	Spanish	Pesce, A.H.	1978	Servicio Nacional Minero Geologia	Chubut (Lago Grl. Vintter)	Geology, alteration and mineralization
74	Informe Preliminar Hoja Lago General Vintter (Hoja 45A)	Spanish	Pezzuchi, H.D.	1979		Chubut (Lago Grl. Vintter)	Geological description
75	Informe Proyecto 04, HB, Cerro Rinon y Cerro Steffen. Plan Patagonia Comaue Geologico Minero	Spanish	Parisi, C.	1981	Servicio Nacional Minero Geologia	Chubut (Lago Vintter)	Field survey report, inc. 1/50,000 maps

No.	Title	Language	Author	Year	Organization	Category	Comments
76	Informe Proyecto 04, HB, Esquel, parque Nacional Los Alerces	Spanish	Viera, R.	1976	Servicio Nacional Minero Geologia	Chubut (Los Alerces)	Field survey report, inc. 1/150,000 geological map
77	Informe Geologico Preliminar, Proyecto 04 HB Esquel y 04 HC Trevelin	Spanish	Marquez, M.J.	1980	Servicio Nacional Minero Geologia	Chubut (Los Alerces)	Field survey report, inc. 1/150,000 alteration map
78	Estudio de los Yacimiento de Caolin del Oeste de la Provincia del Chubut, Minas Susana, Gato y Estrella Gaucha	Spanish	Maiza, P.J.	1981	VIII Congreso Geologico Argentino, San Luis, Atas IV : 471-484.	Chubut (Sakmata)	Acid hydrothermal alteration
79	Mapeo de Semidetalle y Muestreo de las Zonas de Alteracion del Cerro Bayo (Cordillera de Sakmata) Apeleg : Chubut	Spanish	Parisi, C. and Butron, F.	1993		Chubut (Sakmata)	Geochemical exploration by rock samples. No noticeable Au values.
80	Geologia y Mineralizacion de la Cordillera de Sakmata, Aldea Apeleg.	Spanish	Marquez, M. and Pezzuchi, H.	?	Direccion Nacional de Minería y Geologia	Chubut (Sakmata)	Geology and mineralization of Sakmata (Apeleg), Qz veins with sulfides.
81	Informe sobre las Minas de Caolin, Alunita, y Minerales Metaliferos en la Promincia del Chubut	Spanish	Dr.Hayase, K.	1970	Universidad Nacional del Sur	Chubut (Sakmata, Lago Fontana)	Geological survey for the known deposits. No significant mineralization.
82	Estructura y Mineralizacion en la Cordillera Patagonica, Tesis Doctoral	Spanish	Haller, M.J.	1981	Universidad de Buenos Aires	Chubut (Trevelin ~ Lago Grl. Vintter)	Doctoral dissertation, Universidad de Buenos Aires
83	Informe Geologico Preliminar, Proyecto 04 HC Trevelin, Sector Oriental	Spanish	Marquez, M.J.	1979	Servicio Nacional Minero Geologia	Chubut (Trvelin)	Field survey report, inc. 1/100,000 and 1/50,000 maps
84	Informe Project 04, HC, Trevelin. Plan Patagonia Comaue Geologico Minero	Spanish	Marquez, M.	1981	Servicio Nacional Minero Geologia	Chubut (Trvelin)	Field survey report, inc. 1/50,000 alteration map
85	Informe sobre la Prospeccion Semidetallada del Cerro Risco, Proyecto 04, HB, Esquel.	Spanish	Herrero, J.C. and Parisi, C.	1981	Servicio Nacional Minero Geologia	Chubut (Trvelin)	Field survey report, inc. 1/11,500 and 1/1,000 maps
86	Tehcnical Specifications, Airborne Geophysical Survey in Argentina, SEGEMAR PASMA Project 1997-1998	Spanish		1997	SEGEMAR	Geophysics	SEGEMAR's specification for Airbone geophysics
87	Simposio Geofisica Aerea y Geoquimica en la Prospeccion Geologica Minera	Spanish		1998	X Congreso Latinoamericano de Geologia, VI Congreso Nacional de Geologia Economica	Geophysics	Proceedings of international geophysical conference.
88	Minerals Yearbook Volume III, 1995 International Review	English		1995	U.S. Department of the Interior/U.S. Geological Survey	Latin America	1995 Review, Mineral industries of Latin America and Canada
89	Mapa Metalogenetico de la Republica Arentina (GIS etc)	Spanish/E nglish		1998	SEGEMAR	Maps (CD-ROM)	Metallogenic maps of Argentina inc. GIS.
90	Mapa Geologico de la Provincia de Rio Negro, 1:750.000: Direccion Nacional del Servicio Geologico (1) y (2)	Spanish		1994	Direccion Nacional del Servicio geologico, Secretaria de Minería.	Maps (Geol. Map)	Geological map (1/750,000)

Appendix-1 Collected literatures for the existing data analysis, sorted in order of category and year.

No.	Title	Language	Author	Year	Organization	Category	Comments
91	Geologia y Metalogenesis del Orogeno Andino Central: 1:400,000: Direccion Nacional del Servicio Geologico (1) y (2)	Spanish		1995	SEGEMAR	Maps (Geol. Map)	Geological map (1/400,000)
92	Mapa Geologico de la Provincia del Chubut, 1:750,000: Direccion Nacional del Servicio Geologico	Spanish		1995	Direccion Nacional del Servicio geologico, Secretaria de Minería.	Maps (Geol. Map)	Geological map (1/750,000)
93	Mapa Geologico y de Recursos Minerales de la Provincia del Neuquen, 1:500,000: Direccion Nacional del Servicio Geologico	Spanish		1995	Direccion Nacional del Servicio geologico, Secretaria de Minería.	Maps (Geol. Map)	Geological map (1/500,000)
94	Mapa Geologico de la Republica Argentina, 1:2,500,000: Secretaria de Industria, Comercio y Minería (1) y (2)	Spanish		1997	SEGEMAR	Maps (Geol. Map)	Geological map (1/2,500,000)
95	Mapa de Recursos Minerales del Area Fronteriza Argentino-Chilena entre los 34 y 56 S, 1:1,000,000: Servicio Geologico Minero Argentino (2 hojas)	Spanish		1998	SEGEMAR/SERNAGEOMIN	Maps (Geol. Map)	Geological map (1/1,000,000)
96	Mineral survey in the Andean Cordillera, Argentina.	English		1968	United Nations Development Programme	Neuquen	Mineral exploration report
97	Investigation of porphyry copper type mineralization in the Provinces of Mendoza, Neuquen and San Juan, Argentina.	English		1970	United Nations Development Programme	Neuquen	Mineral exploration report
98	Informe de evaluacion preliminar, Contrato de exploracion - explotacion CORMINE Placer Dome, etapa 1	Spanish		1993	Placer International Exploration Inc.	Neuquen	Compilation of several prospects in Neuquen
99	Mapa Geologico y de Recursos Minerales de la Provincia del Neuquen	Spanish		1995	Servicio Geologico Neuquino	Neuquen	Provincial geological map
100	Prospectos Metaliferos, Provincia del Neuquen	Spanish		1998	CORMIN S.E.P.	Neuquen	Information of CORMIN Properties of Butalon Norte, Cajon de los Chenques, Cerro Caicayen. La Voluntad, Cochico.
101	Airbone and Ground Instrumentation	English		??		Neuquen	Neuquen province, airborne mag. spec.
102	Areas de Reservas Minera, Provincia Neuquen	Spanish		?	CORMIN S.E.P.	Neuquen	Information of properties of Neuquen Province
103	Investing for Growth, Neuquen	English		?	Secretaria de Estado del COIPADE y Energia, Provincia del Neuquen	Neuquen	Investment climate in Neuquen Province.
104	No.2 Campana Mahuida (Cu), No.3 Proyect disrito Aurifero Andacollo (Au)	Spanish	?	?		Neuquen	Outline of Campana Mahuida, Andacollo deposits etc.
105	Indexof 1:100,000 topography maps, Provincia del Neuquen	Spanish				Neuquen	Index map of 1/100,000, Neuquen.

No.	Title	Language	Author	Year	Organization	Category	Comments
106	Prospectos y Areas de Alteracion Hidrothermal de la Provincia del Neuquen	Spanish		1996	CORMIN S.E.P.	Neuquen	Information of 23 alteration zones in Neuquen Province.
107	Mapa Oficial de la Provincia del Neuquen	Spanish		1997	Provincia del Neuquen	Neuquen	Information map of 1/500,000 utilizing TM image
108	Prospecto y Areas de Alteracion Hidrotermal, Entre 36°46' 38"12' L.S. y 70°01' - 71°30' L.O.	Spanish			Provincia del Neuquen	Neuquen	Geological map of 1/200,000 with distribution of hydrothermal alteration zones
109	Proyecto Andacollo, Resumen de actividades de exploración periodo sep. 1996 a agosto 1997, Resultados y programa de trabajo	Spanish		1997	CAMECO	Neuquen (Andacollo)	Geological and geochemical map and alteration map
110	Sector Norte Distrito Minero Andacollo	Spanish/English		1998	Gobierno de la Provincia del Neuquen	Neuquen (Andacollo)	Information of CORMIN property at North Andacollo.
111	Exploracion Geologica Proyecto Andacollo, vol.1	Spanish	Fuentes, J.S.	1998	CAMECO Argentina S.A.	Neuquen (Andacollo)	Conceptual geological model
112	Nuevo Contrato de Exploracion para Andacollo	Spanish		1999	Panorama Minero/No232-Enero de 1999	Neuquen (Andacollo)	New contract between CORMIN and Mineral Andacollo Gold S.A.
113	Explotacion del distrito aurifero Andacollo en la Provincia del Neuquen	Spanish		1999	Panorama Minero	Neuquen (Andacollo)	Exploitation at the Andacollo gold mine
114	Longitudinal Mina Sofia	Spanish		2000	Minera Andacollo Gold S.A.	Neuquen (Andacollo)	Section map of the Sofia Mine
115	Estudio Comparativo de los Distritos Mineros "Andacollo" y "Cerro Atravesada", Pcia. Del Neuquen, Argentina.	Spanish	Danieli, J.C. and Ronconi, N.	1979	Direccion General de Minería de la Pcia. de Neuquen	Neuquen (Andacollo, Carreri)	Geological comparative study for Andacollo and Carreri districts. Tertiary age mineralization is supposed for both districts.
116	Geoquímica de los intrusivos hallados entre los arroyos Butalon y Quebrada Felix. Departamento Minas, Neuquen	Spanish	Case, A.M., Danieli, J.C. and Schlamuk, I.	1999	XIV Congreso Geologico Argentino	Neuquen (Butalon)	Petrological chemistry of intrusive rocks
117	Reserva Cajón de los Cheques	Spanish		1995	Placer Exploration Inc.	Neuquen (Cajón de los Cheques)	Mineral exploration report, geological and geochemical works
118	Geología de la Comarca de Campana Mahuida (Provincia del Neuquen)	Spanish	Zanettini, J.C.M.	1975	Asociacion Geologica Argentina, Revista, XXXVI (1) : 61-68.	Neuquen (Campana Mahuida)	Outline geology of Campana Mahuida deposit. Intrusions of Cretaceous to Oligocene.
119	Summary of 1997 Activities, Campana Mahuida Copper Property, Neuquen Province, Argentina	English		1997	Grupo Minero Aconcagua, S.A.	Neuquen (Campana Mahuida)	Summary of drilling, geophysics, hydrogeology and metallurgical test works
120	Campana Mahuida - Porfido Cuprifero Neuquen - Argentina Informe de Exploración Anexo II Logs de Sondeos a Diamantina (NU, CM, FM)	Spanish	Chabert, M.	1998	Grupo Minero Aconcagua, S.A.	Neuquen (Campana Mahuida)	Tables

Appendix 1 Collected literatures for the existing data analysis, sorted in order of category and year.

No.	Title	Language	Author	Year	Organization	Category	Comments
121	Campana Mahuida - Porfido Cuprifero Neuquen - Argentina Informe de Exploración Anexo III Plano de secciones, Secciones NW-SE (zonas de Mena), Secciones NW-SE (meds)	Spanish	Chabert, M.	1998	Grupo Minero Aconcagua, S.A.	Neuquen (Campana Mahuida)	Plans and sections
122	Estudio Minero-Geologico del Yacimiento de Plomo "Carreri", Neuquen, Argentina.	Spanish	Aparicio, E.	1960		Neuquen (Carreri)	Description on the Carreri deposits, including ore grades and reserve (5000).
123	Fax Area de Reserva La Atravesada, Neuquen, Argentina.	Spanish		1993	American Resource Corpration	Neuquen (Carreri)	Memoramdum on the information of La Atravesada area.
124	Area la Atravesada, Neuquen, Argentina.	Spanish		1993	Ingeoma S.A.	Neuquen (Carreri)	Geochemical sampling report in La Atravesada area.
125	Prospecto "La Atravesada", Muestreo Geoquimico, Pcia. del Neuquen, Argentina.	Spanish	Horacio, G.	1993		Neuquen (Carreri)	Stream-sediments geochemical survey results with Cu anomalies of 50 to 100ppm.
126	Area de Reserva Carreri.	Spanish		1995	Provincia del Neuquen	Neuquen (Carreri)	Information on Careri properties
127	Area de Reserva Cochico-Carreri-Cachil, Neuquen, Argentina.	Spanish	Campbell, J.	1996	RTZ Mining and Exploration Limited	Neuquen (Carreri)	Geochemical survey reports. RTZ withdrew to ontract with CORMINE.
128	Area de Reserva Carreri, Neuquen, Argentina.	Spanish		1998	Direccion Pcial. de Minería	Neuquen (Carreri)	Description for previous works in the Carreri district.
129	La Formacion Chachil (Liasico) y sus Niveles Manganesiferos en el Area del Cerro Atravesada, Neuquen, Argentina.	Spanish	Leanza, H.A., De Brodtkorb, M.K., Brodtkorb, A. and Danieli, J.C.		Tercer Congreso Nacional de Geologia Economica	Neuquen (Carreri)	Description for Mn mineralization in the Cerro Atravesada district (Carreri-Nireco).
130	An Appraisal of the Chañas Project of Cormine SEP Neuquen Province, Argentina	Spanish	Bussandri, D.J.	1998	Billiton Argentina	Neuquen (Chañas)	Mineral exploration report, geological and geochemical works
131	Proyecto El Alamo, Informe Impacto Ambiental	Spanish	Bussandri, D.J.	1996	GATRO Argentina Minera S.A.	Neuquen (El Alamo)	Environmental impact assessment report
132	La Voluntad porphyry copper - gold deposit geological report	English	Farnstrom, H., Figueroa, G. and Rochefort, G.	1993	Placer International Exploration Inc.	Neuquen (La Voluntad)	Mineral exploration report, geochemical data
133	La Voluntad cobre porfirico deposito de oro informe geologico	Spanish	Farnstrom, H., Figueroa, G. and Rochefort, G.	1993	Placer International Exploration Inc.	Neuquen (La Voluntad)	Mineral exploration report, geochemical data, tanslation
134	Interpretation report on induced polarization and resistivity surveys at La Voluntad Project on behalf of Placer International Exploration Inc.	English	Rideout, M.	1993	Quantec Geofisica Limitada	Neuquen (La Voluntad)	Mineral exploration report, IP and resistivity methods

No.	Title	Language	Author	Year	Organization	Category	Comments
135	Proyect La Voluntad, Provincia del Neuquen, Republica Argentina, Informe de la Campaña de sondajes	Spanish	Acosta, H., Van Treek, G. and Zapatta, F.	1994	Placer International Exploration Inc.	Neuquen (La Voluntad)	Mineral exploration report, drilling information
136	Proyect III, Geoquímica del yacimiento La Voluntad, Provincia de Neuquen Republica Argentina	Spanish	Ugalde, I. and Vivallo, W.	1994?	Universidad de Chile, Departamento de Geologia	Neuquen (La Voluntad)	Mineral exploration report, geological works
137	Reconocimiento geologico y muestreo orientativo en la zona norte de Pichi Neuquen	Spanish		1989	Corp. Minera del Neuquen	Neuquen (la zona norte de Pichi Neuquen)	Geological exploration report, geological and geochemical works
138	Reserva Quica	Spanish		1985	Placer Exploration Inc.	Neuquen (Palau Mahuida)	Mineral exploration report, geochemical data (Au-Cu)
139	Prospect Pino Andino	Spanish/English		?	Gobierno de la Provincia del Neuquen	Neuquen (Pino Anino)	Information of CORMIN property at Pino Andino, drillings, weak Cu mineralization.
140	Informe Final, Pino Andino	Spanish	González, R.M.	1996	Cominco Argentina	Neuquen (Pino Andino)	Mineral exploration report, geological, geochemical, geophysical and drilling works
141	Target Progress Report	English	Lienhard, W.D.	1996	Minera Andes	Neuquen (Pino Andino)	Mineral exploration report, geological and drilling works
142	Proyect Tucuyo, Prospección geoquímica Informe Final	Spanish	Lopez, S.R.	1996	G.A.M.S.A.	Neuquen (Tucuyo)	Geochemical exploration report
143	Reserva Varvarco Campos	Spanish		1995	Placer Exploration Inc.	Neuquen (Varvarco Campos)	Mineral exploration report
144	Report on the geothermal energy development in the north of Neuquen Province.	Japanese		1984	JICA	Neuquen (Varvarco)	Geothermal energy exploration report
145	Informe de avance, Gira al area de Butalo	Spanish	Sanchez, R.	1995	Minamerica, S.A.	Neuquen (Varvarco)	Geochemical exploration report (brief)
146	Programa Nacional de Cartas Geologicas de la Republica Argentina. Hoja Geologica 4169-I, Piedra del Aguila.	Spanish	Cucchi, R., Espejo, P. and Gonzalez, R.	1998	SEGEMAR	Neuquen y Rio Negro	Geological map of 1/250,000 and note
147	Actualizacion Metalogénica de la Region Patagonica al Sur del Paralelo de 42°00' sur, Republica Argentina	Spanish	Giacosa, R.E., Marquez, M.M. and Pezzuchi, H.D.	1980	Tercer Congreso Nacional de Geologia Economica Tomo III : A1-20.	Patagonia	Mineral deposits of Chubut to Tierra del Fuego
148	Report of mineral exploration in the Patagonia area (phase 2)	Japanese		1983	JICA/MMAJ	Patagonia	Technical cooperation project
149	Report of mineral exploration in the Patagonia area (consolidated)	Japanese		1984	JICA/MMAJ	Patagonia	Technical cooperation project

Appendix-1 Collected literatures for the existing data analysis, sorted in order of category and year.

11/13

No.	Title	Language	Author	Year	Organization	Category	Comments
150	Report of mineral exploration in the Patagonia area (phase 3)	Japanese		1984	JICA/MMAJ	Patagonia	Technical cooperation project
151	Depositos y Manifestaciones Minerales de la Cordillera Patagonica y Fueguina, Republica Argentina	Spanish	Marquez, M.J., Parisi, C., Covaro, M.I.F. and Jones, M.E.	1994	Actas del Encuentro Interncional de Minería, I : 66-83	Patagonia	Mineral deposits of Chubut to Tierra del Fuego
152	Mapa de recursos minerales del area fronteriza Argentino-Chilena entre los 34 y 56 de latitud sur	Spanish		1998	SEGEMAR and SERNAGEOMIN	Patagonia	Note on geological map (1/1,000,000)
153	Mineral resourves map of the frontier zone between Argentine and Chile, 34-56 south latitude	English		1998	SEGEMAR and SERNAGEOMIN	Patagonia	Note on geological map (1/1,000,001)
154	Region : Patagonia, Regiones mineras de la Republica Argentina	Spanish		1999	Subsecretaria de Minería	Patagonia	Data of social, infrastructure and economics
155	Mapa de Recursos Minerales del Area Fronteriza Argentino-Chilena entre los 34 y 56S.	Spanish	Zanettini, J.C.M., Marquez, M.J., Gonzalez, R.A., Vivallo, W.P., Gardeweg, M.C. and Tassara, A.H.	1999	SEGEMAR y SERNAGEOMIN	Patagonia	Geological maps of 1/1,000,000 and note for the area along the border
156	Property map of Chubut Province (4 pc.)	Spanish		1999		Properties (Chubut)	Property map
157	Padron Minero, Provincia de Chubut	Spanish		2000	Provincia de Chubut	Properties (Chubut)	Mining properties of Chubut (Auto-Cad files) without list
158	Expedientes, Provincia del Nauquen.	Spanish		1999	CORMINE	Properties (CORMINE)	Informations on CORMINE's 11 properties
159	Property map of Neuquen Province (A3 size)	Spanish		1998		Properties (Neuquen)	Property map
160	Padron Minero, Provincia de Neuquen	Spanish		2000	Provincia de Neuquen	Properties (Neuquen)	Mining properties of Neuquen (map, floppy)
161	Property map of Rio Negro Province (3 pc.)	Spanish		1999		Properties (Rio Negro)	Property map
162	Padron Minero, Provincia de Rio Negro	Spanish		2000	Provincia de Rio Negro	Properties (Rio Negro)	Mining properties of Rio Negro (map, floppy, list)
163	Informe sobre la Prospeccion Geoquimica Realizada en Areas de la Cordillera de Rio Negro	Spanish	Giacosa, R.E.	1981	S.M.N. Plan Patagonia Comahue	Rio Negro	Stream sediments geochemical survey results.

No.	Title	Language	Author	Year	Organization	Category	Comments
164	Mapa Geologico de la Provincia de Rio Negro	Spanish		1994	Direccion Nacional del Servicio geologico	Rio Negro	Provincial geological map
165	Proyecto Rio Negro	Spanish		1996	SEGEMAR	Rio Negro	Project in Rio Negro province
166	Geologia y Recursos Minerales del Sector Rionegrino de las Hojas 4172-IV, San Carlos de Bariloche y 4172-II, San Martin de los Andes. Informacion Geologico Minera de la Provincia de Rio Negro	Spanish	Giacosa R., Heredia N., Cesari O., Zubia M. y Gonzalez R.	1999	Gobierno de la Provincia Rio Negro y SEGEMAR	Rio Negro	Note on geological map (1/250,000) of San Carlos de Baliloche area.
167	San Carlos de Bariloche, Carta Geologica de la Republica Argentina, Escala 1:250,000	Spanish	Giacosa R., Heredia N., Cesari O., Zubia M. y Gonzalez R.	1999	Giacosa R., Heredia N., Cesari O., Zubia M. y Gonzalez R. (1999) : Gobierno de la Provincia Rio Negro y SEGEMAR	Rio Negro	Geological map (1/250,001) of San Carlos de Baliloche area.
168	Geologia y Recursos Minerales del sector rionegrino de las Hojas 4172-IV, San Carlos de Bariloche y 4172-II, San Martin de los Andes.	Spanish	Giacosa, R., Heredia, N.C., Cesari, O., Zubia, M. and Gonzalez, R.	1999	Direccion de Minería de Rio Negro y SEGEMAR	Rio Negro	Geological maps of 1/250,000 and note
169	Geologia y Recursos Minerales de la Hoja 4169-III, Ingeniero Jacobacci.	Spanish	Gonzalez, P., Coluccia, A., Franchi, M., Caba, R. and Dalponte, M.	1999	Direccion de Minería de Rio Negro y SEGEMAR	Rio Negro	Geological map of 1/250,000 and note
170	Indexof 1:100,000 topography maps, Provincia de Rio Negro	Spanish				Rio Negro	Index map of 1/100,000, Rio Negro.
171	Informe Geologico Minero, Proyect 15 AL-Lago Mascardi, Mosaico 4172-IV-B2, Zona del Codon Tres Morros, Provncia de Rio Negro	Spanish	Giacosa, R.E.	1982	S.M.N. Plan Patagonia Comahue, Saubse de los Alamos-Rio Negro	Rio Negro (Lago Mascardi)	Cordon Tres Morros district, 920ppm Cu, 2,800ppm Zn, stockwork, further survey is required.
172	Prospeccion y Exploracion Minera en el Cordon Tres Morros, Cerro Granito y Cerro del Medio, Cordillera Nord Patagonia, Provincia de Rio Negro, Proyect 15 AL-Lago Mascardi Mosaicos 4172-IV-B1 y B2,	Spanish	Giacosa, R.E.	1986	Direccion Naional de Minería y Geologia, Dept. Centro de Exploracion Patagonia Sur	Rio Negro (Lago Mascardi)	Max 88g/t Au in Cerro del medio o Alcorta district, hydrothermal mineralization.
173	Estudio Geologico de la Mina de Plomo, Zinc, Plata y Cobre "MARIA". Dept. Norquingo. Pcia de Rio Negro	Spanish	Greco, E.A. and Bornabo de Greco, E.	1973		Rio Negro (Maria)	Outline of Maria deposits, 11.75% Pb, 12.70% Zn, 1.8% Cu, 45.41g/t Ag.
174	Estudio Geologico de la Mina de Plomo, Zinc, Plata y Cobre "MARIA". Dept. Norquingo. Pcia de Rio Negro	Spanish	Greco E.A. and Bernabo de Greco E.A.	1973		Rio Negro (Maria)	Outline of Maria deposits.
175	No.9 Mina Maria (Pb-Zn-Ag-Au-Cu), Provincia de Rio Negro	Spanish	?	?		Rio Negro (Maria)	Outline of Maria deposits, Vein 250m×1.6m, 12% Pb, 13% Zn, 45g/t Ag, 3g/t Au, 2% Cu.
176	Informe Geologico Minero Proyecto 15 AF-Bariloche, Mosaico 4172-IV-10a, Zona: Nacientes del Rio Foyel, Prov. De Rio Negro	Spanish	Giacosa, R.E.	1982	S.M.N. Plan Patagonia Comahue	Rio Negro (Rio Foyel)	Follow-up S.S. geochemistry for Rio Foyel, but no noticeable results.
177	Ubicacion de areas mineralizados a visitar y reconocer en conjunto con la mision tecnica japonesa, en las provincias de Rio Negro y Chubut, desde Norquingo hasta Lago Fontana - La Plata.	Spanish	Viera, R.L.M.	2000	SEGEMAR - Delegacion Regional Patagonia Sur	Rio Negro and Chubut	List of known mineralization to visit in Rio Negro and Chubut Provinces

Appendix-1 Collected literatures for the existing data analysis, sorted in order of category and year.

No.	Title	Language	Author	Year	Organization	Category	Comments
178	Hoja Geologica 4969-II: Tres Cerros, Provincia de Santa Cruz	Spanish	Panza, J.L., Zubia, M., Genini, A. and Godeas, M.	1995	Direccion de Nacional del Servicio Geologico, Secretaria de Minería da la Nacion	Santa Cruz	Note on geological map (1/250,000) inc. Cerro Vanguardia deposit.
179	Emprendimiento Minero Cerro Vanguardia	Spanish	Lasanta, M.	1998		Santa Cruz (Cerro Vanguardia)	Development of the Cerro Vanguardia mine

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
1	A00NK001	37° 14' 51.3'	70° 39' 15.2'	Andacollo	Sur los Maitenez	Intrusive	Andesite	Silicification / sericite /	GC
2	A00NK002	36° 47' 17.3'	70° 36' 33.5'	Varvarco	Varvarco		Qz vein		GC
3	A00NK003	36° 47' 26.8'	70° 36' 34.6'	Varvarco	Varvarco		Silicified rock	Silicification //	GC
4	A00NK004	36° 47' 32.3'	70° 36' 34.6'	Varvarco	Varvarco	Intrusive	Granite	/ montmorillonite /	XR
5	A00NK005	36° 47' 04.4'	70° 37' 04.4'	Varvarco	Varvarco	Intrusive	Granite	/ kaolinite /	XR
6	A00NK006	36° 47' 16.6'	70° 36' 31.4'	Varvarco	Varvarco		Rhyolite	/ pyrophyllite /	XR
7	A00NK007	37° 26' 58.3'	70° 26' 10.1'	Cerro Caycayen	Cerro Caycayen		Iron ore	Limonitization //	GC
8	A00NK008	37° 26' 44.4'	70° 26' 03.8'	Cerro Caycayen	Cerro Caycayen	Gr. Lotena?	Sandstone	/ sericite /	
9	A00NK009	37° 26' 57.4'	70° 26' 16.6'	Cerro Caycayen	Cerro Caycayen	Gr. Cuyo	Slate	/ sericite /	
10	A00NK010	37° 27' 01.3'	70° 26' 19.7'	Cerro Caycayen	Cerro Caycayen		Iron ore	Limonitization //	GC
11	A00NK011	37° 26' 55.7'	70° 26' 21.5'	Cerro Caycayen	Cerro Caycayen	Gr. Lotena?	Sandstone	/ sericite /	
12	A00NK012	38° 13' 07.5'	70° 32' 37.4'	Campana Mahuida	Campana Mahuida	Tordillo Fm.	Sandstone	Phyllic / sericite /	XR
13	A00NK013	38° 13' 07.5'	70° 32' 34.5'	Campana Mahuida	Campana Mahuida		Qz vein		FI
14	A00NK014	39° 13' 09.6'	70° 35' 53.1'	La Voluntad	La Voluntad	Intrusive (La Voluntad Complex)	Biotite granite	Chloritization // malachite	TS
15	A00NK015	39° 13' 15.1'	70° 35' 58.8'	La Voluntad	La Voluntad		Qz vein		GC
16	A00NK016	39° 03' 02.0'	70° 31' 49.5'	Nireco	ZA027	Campos basalticos de Zapala	Dacite	Silicification, Limonitization / montmorillonite /	GC
17	A00NK017	39° 02' 41.9'	70° 31' 58.1'	Nireco	ZA027	Campos basalticos de Zapala	Dacite	Silicification, Limonitization / montmorillonite /	GC
18	A00NK018	39° 02' 40.1'	70° 32' 11.2'	Nireco	ZA027	Campos basalticos de Zapala	Rhyolite	Phyllic / sericite /	TS
19	A00NK019	41° 40' 02.0'	71° 06' 16.8'	Mina Maria	Mina Maria		Ore	// gn, cp, py	PT,OA
20	A00NK020	41° 40' 02.0'	71° 06' 16.8'	Mina Maria	Mina Maria		Qz Vein		
21	A00NK021	42° 08' 43.5'	71° 19' 18.8'	Cerro Coihue	Quebrada Ferreyro	Lago Puelo granitic complex	Granite	Tourmalinization, Limonitization // py	GC
22	A00NK022	42° 08' 00.2'	71° 19' 10.3'	Cerro Coihue	Quebrada Ferreyro	Lago Puelo granitic complex	Granite	Chloritization, Limonitization //	
23	A00NK023	42° 08' 00.2'	71° 19' 10.3'	Cerro Coihue	Quebrada Ferreyro		Tourmaline breccia		GC
24	A00NK024	42° 08' 00.2'	71° 19' 10.3'	Cerro Coihue	Quebrada Ferreyro		Sulfide vein in granite	Limonitization //	
25	A00NK025	42° 08' 02.2'	71° 19' 10.3'	Cerro Coihue	Quebrada Ferreyro	Lago Puelo granitic complex	Granite		TS
26	A00NK026	42° 09' 27.5'	70° 30' 28.5'	Cushamen	Cushamen	Intrusive	Pegmatite	/ kaolinite /	XR
27	A00NK027	42° 09' 30.0'	70° 30' 25.1'	Cushamen	Cushamen		Qz vein		GC
28	A00NK028	42° 09' 31.2'	70° 30' 25.9'	Cushamen	Cushamen		Qz vein		GC
29	A00NK029	42° 09' 31.2'	70° 30' 25.9'	Cushamen	Cushamen	Intrusive	Rhyolite	Silicification //	GC
30	A00NK030	42° 09' 35.0'	70° 30' 31.3'	Cushamen	Cushamen	Cushamen Fms.	Schist	Silicification //	XR
31	A00NK031	42° 09' 47.9'	70° 30' 24.4'	Cushamen	Cushamen	Intrusive	Rhyolite	montmorillonite? //	XR
32	A00NK032	42° 09' 43.2'	70° 30' 19.4'	Cushamen	Cushamen		Flaky qz		GC
33	A00NK033	42° 09' 44.4'	70° 30' 17.8'	Cushamen	Cushamen		Qz vein	Tourmalinization //	XR,GC

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
34	A00NK034	43° 17' 00.0"	70° 59' 16.8"	Cerro Gonzalo	Cerro Gonzalo	Intrusive	Granodiorite porphyry	K ⁺ feld.?? / cp.py.bo	XR,GC
35	A00NK035	43° 18' 46.7"	71° 02' 31.0"	Cerro Gonzalo	Cerro Gonzalo		Qz vein	qz / /	GC
36	A00NK036	43° 18' 46.7"	71° 02' 31.0"	Cerro Gonzalo	Cerro Gonzalo		Qz vein	qz / /	GC
37	A00NK037	43° 17' 19.7"	70° 59' 28.8"	Cerro Gonzalo	Arroyo. Luques	Intrusive (Aleusco Fm.)	Granodiorite	Phyllic / sericite /	XR
38	A00NK038	42° 52' 56.9"	71° 12' 53.2"	Joya del Sol	Brancote-Antonio		Qz vein		FI
39	A00NK039	42° 52' 56.9"	71° 12' 53.2"	Joya del Sol	Brancote-Antonio	Lago La Plata Fm.	Andesite	/ montmorillonite /	XR
40	A00NK039-1	42° 52' 56.9"	71° 12' 53.2"	Joya del Sol	Brancote-Antonio	Lago La Plata Fm.	Andesite		PT
41	A00NK040	43° 37' 55.5"	71° 25' 26.0"	Poncho Moro	Arroyo Pedregoso		Andesite? (Float)	Chloritization, Limonitization / / py	GC
42	A00NK041	43° 41' 45.6"	70° 34' 03.5"	Gabros de Tecka	Gabros de Tecka	Intrusive (Tecka Fm.)	Gabbro		PT,PC
43	A00NK042	43° 41' 59.0"	70° 34' 00.0"	Gabros de Tecka	Gabros de Tecka	Intrusive (Tecka Fm.)	Gabbro		PC
44	A00NK043	43° 42' 34.0"	70° 33' 07.1"	Gabros de Tecka	Gabros de Tecka	Intrusive (Tecka Fm.)	Gabbro		PC
45	A00NK044	44° 50' 20.2"	71° 08' 19.2"	Mina Gato	Mina Gato	Divisadero Fm.	Rhyolite?	Silicification / alunite /	XR
46	A00NK045	44° 50' 18.1"	71° 08' 21.5"	Mina Gato	Mina Gato	Divisadero Fm.	Andesite	Silicification / /	GC
47	A00NK046	44° 50' 26.9"	71° 08' 01.2"	Mina Gato	Mina Gato	Divisadero Fm.	Porphyritic andesite	/ montmorillonite /	XR
48	A00NK047	44° 50' 33.7"	71° 08' 34.3"	Mina Gato	Mina Gato	Divisadero Fm.	Andesite	Silicification / /	XR,GC
49	A00NK048	44° 50' 38.0"	71° 08' 36.2"	Mina Gato	Mina Gato	Divisadero Fm.	Andesite		TS
50	A00NK049	45° 00' 45.8"	71° 27' 22.1"	Cerro Blanco	Cerro Blanco	Lago La Plata Fm.	Dacite	Phyllic / sericite /	XR
51	A00NK050	42° 53' 30.0"	71° 12' 40.7"	Joya del Sol	Brancote-Julia	Lago La Plata Fm.	Andesite		KA
52	A00HH001	37° 15' 03.8"	70° 39' 21.5"	Andacollo	Sur los Maitenez	Intrusive	Altered rhyolite	Limonitization / sericite /	
53	A00HH002	37° 11' 26.9"	70° 37' 51.0"	Andacollo	Mina Sofia		Qz py gn ore	/ / qz with py, gn	PT,OA
54	A00HH003	36° 58' 47.1"	70° 38' 49.6"	Butalon Norte	Cerro Panta	Choiyoi Fm.	Tuff breccia	sericite, kaoline ? / not identified /	
55	A00HH004	37° 01' 10.8"	70° 39' 49.3"	Butalon Norte	CM010	Choiyoi Fm.	Altered rock	/ sericite /	XR,GC
56	A00HH005	37° 07' 17.8"	70° 37' 24.8"	Andacollo	CM011	Choiyoi Fm.	Altered rock	/ sericite /	
57	A00HH006	37° 37' 42.5"	70° 26' 02.6"	Cerro del Diablo	Barite mine	Intrusive	Altered granite	White mineral / kaolinite / barite	
58	A00HH007	37° 37' 43.0"	70° 26' 05.0"	Cerro del Diablo	Barite mine		Altered rock	/ montmorillonite(A), sericite(C) /	XR
59	A00HH008	37° 37' 57.8"	70° 26' 21.4"	Cerro del Diablo	Barite mine	Intrusive	Felsic rock	Silicification, qz network / /	
60	A00HH009	37° 37' 57.8"	70° 26' 21.4"	Cerro del Diablo	Barite mine	Intrusive	Granite	Weak / /	
61	A00HH010	37° 38' 14.5"	70° 25' 59.2"	Cerro del Diablo	Cu mine		Cu ore	/ montmorillonite / chrysocolla, iron oxide	
62	A00HH011	37° 38' 19.2"	70° 25' 44.5"	Cerro del Diablo	Cu mine		Altered rock	/ kaolinite /	
63	A00HH012	37° 13' 04.9"	70° 40' 32.8"	Andacollo	Cerro Colo	Intrusive	Andesitic porphyry	Weak / /	WR
64	A00HH013	37° 13' 04.9"	70° 40' 32.8"	Andacollo	Cerro Colo	Intrusive	Dacite		TS,XR,GC
65	A00HH014	38° 13' 09.6"	70° 32' 41.3"	Campana Mahuida	Campana Mahuida	Tordillo Fm.	Altered rock	qz, sericite / /	
66	A00HH015	38° 12' 47.4"	70° 32' 37.1"	Campana Mahuida	Campana Mahuida		Cu oxide with diorite (Float)	/ / Cu oxide	

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
67	A00HH016	38° 12' 37.7"	70° 32' 30.7"	Campana Mahuida	Campana Mahuida		Silicified rock	Silicification //	GC
68	A00HH017	38° 12' 48.1"	70° 35' 28.8"	Campana Mahuida	Campana Mahuida	Tordillo Fm.	Altered sand stone	qz, white mineral //	
69	A00HH018	39° 13' 00.8"	70° 36' 01.4"	La Voluntad	La Voluntad	Intrusive (La Voluntad Complex)	Granite		
70	A00HH019	39° 04' 56.0"	70° 31' 56.4"	Nireco	ZA028/029	Campos basalticos de Zapala	Silicified rock	Silicification / kaolinite //	XR,GC
71	A00HH020	39° 05' 47.6"	70° 31' 26.7"	Nireco	ZA028/029	Campos basalticos de Zapala	Green tuff/altered rock	/ chlorite, zeolite, calcite, montmorillonite, sericite /	
72	A00HH021	39° 06' 00.0"	70° 31' 29.8"	Nireco	ZA028/029	Campos basalticos de Zapala	Green tuff/altered rock		
73	A00HH022	38° 57' 56.3"	70° 36' 47.4"	Carreri Malal	Carreri Malal	Intrusive	Granite		XR
74	A00HH023	38° 58' 27.5"	70° 35' 03.7"	Carreri Malal	Carreri Malal		Altered rock	Argillization //	XR
75	A00HH024	41° 40' 12.0"	71° 06' 43.1"	Mina Maria	Mina Maria		Qz-py-cp-malachite-ga ore	// qz, py, cp, malachite, gn	PT,OA
76	A00HH025	42° 08' 40.8"	71° 18' 27.0"	Cerro Coihue	Quebrada Baya	Lago Puelo granitic complex	Granite with tourmaline	Weakly whitened //	
77	A00HH026	42° 08' 40.8"	71° 18' 27.0"	Cerro Coihue	Quebrada Baya	Intrusive	Andesite dyke	Almost fresh //	
78	A00HH027	42° 08' 35.3"	71° 18' 35.3"	Cerro Coihue	Quebrada Baya		Altered rock	/ laumontite /	XR
79	A00HH028	42° 08' 49.7"	71° 18' 36.0"	Cerro Coihue	Quebrada Baya	Lago Puelo granitic complex	Altered granite	/ calcite /	XR,GC
80	A00HH029	42° 08' 49.7"	71° 18' 36.0"	Cerro Coihue	Quebrada Baya		Qz, tourmaline (Float)		
81	A00HH030	42° 08' 42.9"	71° 18' 33.0"	Cerro Coihue	Quebrada Baya	Intrusive	Andesite		
82	A00HH031	42° 09' 07.4"	71° 24' 13.4"	Condorcanqui	Condorcanqui		Altered rock	Argillization, white clay mineral / not identified /	
83	A00HH032	42° 09' 07.4"	71° 24' 13.4"	Condorcanqui	Condorcanqui		Altered rock	Argillization, white clay mineral dot //	
84	A00HH033	42° 09' 48.0"	71° 24' 03.2"	Condorcanqui	Condorcanqui		Malachite-chrysocolla-py-cp ore	// malachite, chrysocolla, py, cp	
85	A00HH034	42° 09' 48.0"	71° 24' 03.2"	Condorcanqui	Condorcanqui	Ventana Fm.	Andesite	Chloritic or fresh (with cp) //	XR,GC
86	A00HH035	42° 09' 48.0"	71° 24' 03.2"	Condorcanqui	Condorcanqui		Altered rock	qz, K-fel., cp, limonite // qz with cp	
87	A00HH036	42° 13' 10.3"	71° 25' 17.9"	Epuyen	Arroyo Pedregoso de Epuyen	Ventana Fm.	Zeolite in altered andesite	/ laumontite /	
88	A00HH037	41° 58' 05.9"	71° 34' 30.0"	El Bolson	Rio Lindo		Granite with py (float)		GC
89	A00HH038	41° 58' 05.9"	71° 34' 30.0"	El Bolson	Rio Lindo		Silicified rock with py (float)	Silicification //	
90	A00HH039	41° 58' 05.9"	71° 34' 30.0"	El Bolson	Rio Lindo		Pyroclastics with py (float)		GC
91	A00HH040	41° 55' 33.0"	71° 33' 28.1"	El Bolson	Rio Azul		Andesite with py, chl (float)	Silicification //	
92	A00HH041	42° 47' 31.0"	71° 29' 46.3"	Huemules	Huemules Sur		Ore	// malachite, cp, py	
93	A00HH042	42° 47' 25.7"	71° 29' 50.4"	Huemules	Huemules Sur		Ore	// galena	
94	A00HH043	42° 47' 25.7"	71° 29' 50.4"	Huemules	Huemules Sur	Canadon Huemules Fm.	Andesite	Relatively fresh to argillization / sericite /	XR
95	A00HH044	42° 47' 17.1"	71° 29' 58.7"	Huemules	Huemules Sur		Altered rock	Silicification-argillization, py //	XR,GC
96	A00HH045	42° 47' 17.1"	71° 29' 58.7"	Huemules	Huemules Sur	Intrusive	Micro granodiorite	Fresh //	
97	A00HH046	42° 47' 28.9"	71° 29' 42.0"	Huemules	Huemules Sur		Ore	Oxidized cp // qz, cp, py	
98	A00HH047	42° 45' 37.5"	71° 06' 29.3"	Joya del Sol	Arroyo Cancha		Altered rock	Silicification, py //	GC
99	A00HH048	42° 53' 46.5"	71° 12' 45.8"	Joya del Sol	Brancote Elena Sur		Qz vein		

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
100	A00HH049	42° 52' 22.4"	71° 12' 08.8"	Joya del Sol	Brancote-Galadriel		Qz vein		
101	A00HH050	42° 51' 49.3"	71° 11' 08.1"	Joya del Sol	Near LM024	Lago La Plata Fm.	Altered rock	/ sericite /	XR
102	A00HH051	43° 57' 47.7"	71° 34' 09.4"	Cerro Colorado	Near Cerro Riñon		Silicified rock (Float)	Silicification / pyrophyllite /	
103	A00HH052	43° 30' 23.8"	71° 06' 25.6"	Arroyo Cascada	Arroyo Cascada	Lago La Plata Fm.	Qz with white altered mineral	/ montmorillonite /	
104	A00HH053	43° 30' 19.0"	71° 06' 12.1"	Arroyo Cascada	Arroyo Cascada		Altered rock (Float)	/ montmorillonite /	
105	A00HH054	43° 30' 19.0"	71° 06' 12.1"	Arroyo Cascada	Arroyo Cascada	Lago La Plata Fm.	Altered rock	/ montmorillonite /	XR
106	A00HH055	44° 41' 33.1"	71° 07' 07.0"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	/ kaolinite /	
107	A00HH056	44° 41' 33.1"	71° 07' 07.0"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	/ kaolinite /	
108	A00HH057	44° 41' 33.1"	71° 07' 07.0"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	/ kaolinite /	XR
109	A00HH058	44° 41' 18.8"	71° 07' 13.0"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	/ kaolinite /	
110	A00HH059	44° 41' 23.3"	71° 07' 13.4"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Kaoline/dickite/greysh kaoline	/ kaolinite /	
111	A00HH060	44° 41' 25.0"	71° 05' 40.1"	Estrella Gaucha	Estrella Gaucha	Intrusive	Andesite	Propylitic ???	TS,GC
112	A00HH061	44° 56' 24.0"	71° 35' 16.1"	Ferrocarrilera	Ferrocarrilera		Galena ore	// galena	
113	A00HH062	44° 56' 24.0"	71° 35' 16.1"	Ferrocarrilera	Ferrocarrilera	Lago La Plata Fm.	Andesite		XR
114	A00HH063	44° 56' 19.2"	71° 35' 08.3"	Ferrocarrilera	Ferrocarrilera		Galena-sphalerite-qz ore	// galena, sphalerite	PT
115	A00HH064	44° 56' 18.2"	71° 35' 08.4"	Ferrocarrilera	Ferrocarrilera		Qz-py-cp-sphalerite ore	// cp, sphalerite	
116	A00HH065	44° 56' 20.3"	71° 35' 11.8"	Ferrocarrilera	Ferrocarrilera		Galena-sphalerite ore	// galena, sphalerite	
117	A00MZ001	37° 15' 05.0"	70° 39' 24.2"	Andacollo	Sur los Maitenez	Intrusive	Rhyolite	Silicification / sericite /	GC
118	A00MZ002	37° 14' 29.0"	70° 39' 40.7"	Andacollo	Sur los Maitenez	Intrusive	Volcanic rock	Silicification / sericite / limonite-qz network	GC
119	A00MZ003	37° 11' 32.5"	70° 37' 54.6"	Andacollo	Mina Sofia	Intrusive	Dacite	Argillization / sericite / pyrite diss.	XR,GC
120	A00MZ004	36° 58' 47.3"	70° 38' 49.5"	Butalon Norte	Butalon Norte	Choiyoi Fm.	Pebble dyke	Silicification // magnetite	XR,GC
121	A00MZ005	36° 58' 47.7"	70° 38' 52.7"	Butalon Norte	Butalon Norte	Choiyoi Fm.	Volcanic rock	Silicification // magnetite	GC
122	A00MZ006	37° 01' 08.1"	70° 39' 50.5"	Butalon Norte	CM010	Choiyoi Fm.	Volcanic rock	Silicification / kaolinite / limonite	GC
123	A00MZ007	37° 07' 20.2"	70° 37' 23.4"	Andacollo	CM011	Choiyoi Fm.	Volcanic rock	Silicification / sericite / pyrite diss.	GC
124	A00MZ008	37° 26' 39.3"	70° 26' 35.8"	Cerro Caicayen	Quebrada el Bronce	Cuyo Gr.	Mudstone	Silicification // pyrite diss. network	GC
125	A00MZ009	37° 26' 35.5"	70° 26' 59.9"	Cerro Caicayen	Quebrada el Bronce	Intrusive (Grupo Molle)	Granite	Potassic //	GC
126	A00MZ010	37° 27' 10.8"	70° 26' 48.1"	Cerro Caicayen	Mina Hierro	Ore deposit	Massive ore	// pylvite-limonite	OA
127	A00MZ011	37° 11' 30.1"	70° 37' 58.5"	Andacollo	Mina Sofia	Intrusive	Qz porphyry	Weak //	WR
128	A00MZ012	37° 11' 30.1"	70° 37' 58.5"	Andacollo	Mina Sofia, Level1	Ore deposit	Vein ore	// qz-calcite-py-gn	OA,DS,DO,FI
129	A00MZ013	37° 11' 25.3"	70° 37' 51.2"	Andacollo	Mina Sofia	Intrusive	Dacite porphyry	Fresh //	TS,WR
130	A00MZ014	37° 11' 25.3"	70° 37' 51.2"	Andacollo	Mina Sofia	Huaraco Fm. (Andacollo Gr.)	Mudstone	// pyrite	DS
131	A00MZ015	37° 13' 15.8"	70° 40' 32.7"	Andacollo	Cerro Colo	Intrusive (Cretaceous)	Tonalite	Fresh // py-green Cu stain	TS,WR
132	A00MZ016	37° 11' 30.1"	70° 37' 58.5"	Andacollo	Mina Sofia, Level4	Ore deposit	Vein ore	// qz-calcite-py-gn	PT,OA,FI

Appendix-2 Samples taken for the survey.

5/18

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
133	A00MZ017	37° 11' 30.1"	70° 37' 58.5"	Andacollo	Mina Sofia, Level4	Ore deposit	Vein ore	// qz-calcite-py-gn	FI
134	A00MZ018	38° 12' 48.6"	70° 32' 18.1"	Campana Mahuida	Campana Mahuida	Intrusive (Tres Puntas)	Granodiorite	Fresh //	TS,WR
135	A00MZ019	38° 12' 47.2"	70° 35' 24.9"	Campana Mahuida	Mina Angelica	Ore deposit	Vein ore	// barite-Fe oxides	OA
136	A00MZ020	38° 12' 48.5"	70° 35' 30.5"	Campana Mahuida	Mina Angelica	Ore deposit	Vein ore	// barite-galena-Fe oxides	OA
137	A00MZ021	39° 12' 50.2"	70° 36' 22.1"	La Voluntad	La Voluntad	Intrusive	Vein ore	// qz-malachite	OA
138	A00MZ022	39° 12' 52.1"	70° 36' 23.1"	La Voluntad	La Voluntad	Intrusive (La Voluntad Complex)	Granite	Potassic //	TS,GC
139	A00MZ023	39° 02' 59.8"	70° 32' 02.1"	Nireco	ZA027	Campos basalticos de Zapala	Volcanic rock	Silicification / montmorillonite /	GC
140	A00MZ024	39° 02' 22.1"	70° 32' 10.7"	Nireco	ZA027	Campos basalticos de Zapala	Volcanic rock	Silicification / sericite /	XR,GC
141	A00MZ025	39° 01' 53.3"	70° 32' 35.4"	Nireco	ZA026	Campos basalticos de Zapala	Volcanic rock	Silicification / kaolinite /	GC
142	A00MZ026	38° 57' 50.5"	70° 36' 50.9"	Carreri Malal	Carreri Malal	Ore deposit	Vein ore	Argillization // Fe-Mn oxides (gossan)	GC
143	A00MZ027	38° 57' 48.3"	70° 36' 53.9"	Carreri Malal	Carreri Malal	Ore deposit	Vein ore	Chloritization // Mn oxide	GC
144	A00MZ028	38° 57' 59.1"	70° 36' 46.3"	Carreri Malal	Carreri Malal	Ore deposit	Vein ore	// qz-py-gn-bornite	OA
145	A00MZ029	41° 40' 11.3"	71° 06' 41.0"	Mina Maria	Mina Maria	Ore deposit	Vein ore	// galena	DS
146	A00MZ030	41° 40' 11.3"	71° 06' 41.0"	Mina Maria	Mina Maria	Ore deposit	Vein ore	// gn-py-cp	PT,OA
147	A00MZ031	42° 08' 39.5"	71° 19' 17.3"	Cerro Coihue	Quebrada Ferreyro	Lago Puelo granitic complex	Granite (Float)	// limonite	GC
148	A00MZ032	42° 08' 29.5"	71° 19' 18.8"	Cerro Coihue	Quebrada Ferreyro	Lago Puelo granitic complex	Granodiorite (Float)	Fresh //	TS,WR
149	A00MZ033	42° 08' 05.3"	71° 19' 28.3"	Cerro Coihue	Quebrada Ferreyro	Lago Puelo granitic complex	Granodiorite (Float)	// chrysocolla	GC
150	A00MZ034	42° 09' 09.9"	71° 24' 13.9"	Condorcanqui	Condorcanqui	Ventana Fm.	Andesitic tuff	Propylite // pyrite diss.	GC
151	A00MZ035	42° 09' 09.9"	71° 24' 13.9"	Condorcanqui	Condorcanqui	Zeolite vein	Zeolite	Propylite / laumontite /	GC
152	A00MZ036	42° 09' 46.1"	71° 24' 03.8"	Condorcanqui	Condorcanqui	Ventana Fm.	Andesite	Propylite // cp diss. veinlet	OA
153	A00MZ037	42° 09' 46.1"	71° 24' 03.8"	Condorcanqui	Condorcanqui	Ventana Fm.	Andesite	Propylite // malachite	OA
154	A00MZ038	42° 09' 46.1"	71° 24' 03.8"	Condorcanqui	Condorcanqui	Ventana Fm.	Andesite	Propylite // pyrite diss.	PT
155	A00MZ039	42° 13' 51.9"	71° 25' 17.7"	Epuyen	Arroyo Pedregoso de Epuyen	Ventana Fm.	Andesite (Float)	Propylite // pyrite diss.	GC
156	A00MZ040	42° 28' 03.8"	71° 35' 53.2"	Lago Chilila	A. Pedregoso de Lago Chohila	Granitoides Cordilleranos	Sil., breccia (Float)	Silicification // limonite	GC
157	A00MZ041	42° 47' 32.1"	71° 29' 45.9"	Huemules	Huemules Sur	Ore deposit	Veinlet	// qz-py-gn	OA
158	A00MZ042	42° 47' 32.1"	71° 29' 45.9"	Huemules	Huemules Sur	Ore deposit	Veinlet	// galena mass	PT,OA,DS
159	A00MZ043	42° 47' 32.1"	71° 29' 45.9"	Huemules	Huemules Sur	Ore deposit	Veinlet	// qz-py	DO,FI
160	A00MZ044	42° 47' 18.6"	71° 29' 54.8"	Huemules	Huemules Sur	Intrusive	Microdiorite	Propylite //	TS,WR
161	A00MZ045	42° 47' 32.1"	71° 29' 45.9"	Huemules	Huemules Sur	Ore deposit	Vein Ore	// galena mass	
162	A00MZ046	42° 47' 32.6"	71° 29' 43.5"	Huemules	Huemules Sur	Ore deposit	Veinlet	// qz-cp-py-gn	OA,DO,FI
163	A00MZ047	42° 45' 39.1"	71° 06' 33.5"	Joya del Sol	Arroyo Cancha	Alluvium	Qz veinlet (Float)		GC
164	A00MZ048	42° 53' 40.9"	71° 12' 32.9"	Joya del Sol	Brancote-Elena Sur	Ore deposit	Qz vein	// Auriferous qz vein	OA,DO,FI
165	A00MZ049	42° 53' 40.9"	71° 12' 32.9"	Joya del Sol	Brancote-Elena Sur	Ore deposit	Qz vein	// Auriferous qz vein	OA

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
166	A00MZ050	42° 53' 20.7"	71° 12' 45.3"	Joya del Sol	Brancote-Julia	Ore deposit	Hydrothermal breccia	// Auriferous qz vein	
167	A00MZ051	42° 52' 43.0"	71° 12' 19.5"	Joya del Sol	Brancote-Galadriel	Ore deposit	Qz vein	// Auriferous qz vein	DO,FI
168	A00MZ052	43° 10' 38.2"	71° 40' 51.4"	Poz. de Navarro	Poz. de Navarro	Qz vein	Qz vein	// pyrite diss.	GC
169	A00MZ053	43° 10' 38.2"	71° 40' 51.4"	Poz. de Navarro	Poz. de Navarro	Lago la Plata Fm.	Andesite	Propylite // qz:cp veinlets	GC
170	A00MZ054	43° 11' 17.8"	71° 39' 56.7"	Poz. de Navarro	Ea. el Triunfo	Intrusive	Qz porphyry	Silicification / sericite / py:cp? diss.	GC
171	A00MZ055	43° 24' 09.3"	71° 32' 33.1"	Las Mentas	Las Mentas	Qz vein	Qz ein	// qz:cp:gn-malachite	OA
172	A00MZ056	43° 37' 55.1"	71° 25' 30.7"	Poncho Moro	Arroyo Pedregoso	Alluvium	Qz vein (Float)	// Slight pyrite diss.	GC
173	A00MZ057	43° 30' 22.9"	71° 06' 24.7"	Arroyo Cascada	Arroyo Cascada	Qz vein	Qz vein	// pyrite diss.	GC
174	A00MZ058	43° 30' 22.9"	71° 06' 24.7"	Arroyo Cascada	Arroyo Cascada	Lago la Plata Fm.	Silicified rock	Silicification / montmorillonite /	XR
175	A00MZ059	43° 30' 17.0"	71° 06' 10.1"	Arroyo Cascada	Arroyo Cascada	Lago la Plata Fm.	Silicified rock	Silicification // pyrite diss.	GC
176	A00MZ060	43° 30' 17.0"	71° 06' 10.1"	Arroyo Cascada	Arroyo Cascada	Qz vein (F)	Cubic pyrite	// Cubic pyrite in qz vein	DS
177	A00MZ061	44° 50' 13.6"	71° 08' 30.6"	Mina Gato	Mina Gato	Divisadero Fm.	Soft silky rock	Kaolinitization / kaolinite /	GC
178	A00MZ062	44° 50' 05.0"	71° 08' 43.7"	Mina Gato	Mina Gato	Divisadero Fm.	Silicified rock	Silicification / alunite /	GC
179	A00MZ063	44° 50' 10.2"	71° 07' 54.6"	Mina Gato	Mina Gato	Divisadero Fm.	Silicified rock	Silicification / sericite-montmorillonite / pyrite diss.	GC
180	A00MZ064	44° 54' 11.1"	71° 14' 43.6"	Ea. Arroyo Victoria	Arroyo Huemul	Alluvium	Silicified rock	Silicification / alunite / Slight limonitic	GC
181	A00MZ065	44° 56' 21.8"	71° 35' 05.4"	Ferrocarrilera	Ferrocarrilera	Lago la Plata Fm.	Andesite	Propylite // pyrite diss.	TS,GC
182	A00MZ066	44° 56' 21.8"	71° 35' 05.4"	Ferrocarrilera	Ferrocarrilera		Vein ore	// pyrite diss.	DS,DO,FI
183	A00MZ067	44° 56' 21.8"	71° 35' 05.4"	Ferrocarrilera	Ferrocarrilera		Vein ore	// gn:sp:py	
184	A00MZ068	44° 56' 21.8"	71° 35' 05.4"	Ferrocarrilera	Ferrocarrilera		Vein ore	// gn:sp:py	OA
185	A00TM001	37° 15' 05.6"	70° 39' 16.8"	Andacollo	Sur los Maitenez	Intrusive	Dacite	Silicification / sericite / limonite	GC
186	A00TM002	37° 11' 27.7"	70° 37' 45.8"	Andacollo	Mina Sofia level4	Huaraco Fm. (Andacollo Gr.)	Black shale	Silicification / sericite / gn, sp, cp, py diss.	GC
187	A00TM003	36° 47' 16.0"	70° 36' 27.4"	Varvarco	CM005		White altered rock	Weak silicification, argillization / pyrophyllite /	XR,GC
188	A00TM004	36° 47' 08.1"	70° 35' 32.4"	Varvarco	CM006	Choiyoi Fm.	Rhyolitic tuff	Fresh //	GC
189	A00TM005	36° 50' 54.5"	70° 39' 54.4"	Varvarco	Varvarco	Intrusive	Tonalite	Weak silicification //	GC
190	A00TM006	36° 50' 54.5"	70° 39' 54.4"	Varvarco	Varvarco	Intrusive	Tonalite	Weak alteration //	TS
191	A00TM007	37° 37' 43.4"	70° 25' 58.8"	Cerro del Diablo	Cerro del Diablo (Colorado)		Qz vein	// qz:barite	GC
192	A00TM008	37° 37' 43.4"	70° 25' 58.8"	Cerro del Diablo	Cerro del Diablo (Colorado)	Vaca Muerta Fm.	Shale	Argillization //	XR,GC
193	A00TM009	37° 37' 59.0"	70° 26' 25.1"	Cerro del Diablo	Cerro del Diablo (Colorado)	Intrusive	Tonalite	Fresh //	TS,WR,KA
194	A00TM010	37° 38' 10.3"	70° 26' 20.6"	Cerro del Diablo	Cerro del Diablo	Vaca Muerta Fm.	Shale	Silicification, argillization / sericite / limonite Silicification, argillization / sericite, kaolinite / limonite	GC
195	A00TM011	37° 38' 10.3"	70° 26' 20.6"	Cerro del Diablo	Cerro del Diablo	Vaca Muerta Fm.	Shale		XR
196	A00TM012	37° 38' 10.3"	70° 26' 20.6"	Cerro del Diablo	Cerro del Diablo		Qz vein	// qz:barite Silicification, argillization // malachite, azurite, limonite	GC
197	A00TM014	37° 38' 21.5"	70° 25' 48.5"	Cerro del Diablo	Cerro del Diablo	Intrusive	Granite?	Silicification, argillization/kaolinite,sericite/malachite,a zurite,limonite	GC
198	A00TM015	37° 38' 21.5"	70° 25' 48.5"	Cerro del Diablo	Cerro del Diablo	Intrusive	Granite?		XR

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
199	A00TM016	37° 38' 20.3"	70° 25' 37.6"	Cerro del Diablo	Cerro del Diablo	Intrusive	Granite?	Silicification, argillization/kaolinite/malachite/limonite stain	XR,GC
200	A00TM017	36° 47' 19.1"	70° 37' 31.8"	Varvarco	CM004	Intrusive	Tonalite	Tourmalinization, qz+epidote vein //	TS,GC
201	A00TM018	36° 47' 19.1"	70° 37' 31.8"	Varvarco	CM004	Intrusive	Tonalite	Weak alteration //	TS,WR
202	A00TM019	36° 47' 19.1"	70° 37' 31.8"	Varvarco	CM004	Intrusive	Diorite porphyry	Tourmalinization, qz+epidote vein //	TS,WR
203	A00TM020	36° 49' 51.0"	70° 40' 20.1"	Varvarco	Varvarco	Valvalco granite	Tonalite	Fresh //	TS,WR,KA
204	A00TM021	39° 12' 50.1"	70° 36' 26.6"	La Voluntad	La Voluntad	Intrusive	Qz vein in granitoid	// malachite	GC
205	A00TM022	39° 05' 04.4"	70° 32' 11.5"	Nireco	ZA028	Campos basalticos de Zapala	Lapilli tuff	Silicification //	GC
206	A00TM023	39° 05' 45.5"	70° 31' 21.5"	Nireco	ZA029	Campos basalticos de Zapala	Andesite?	Fresh //	TS
207	A00TM026	39° 06' 00.7"	70° 31' 26.8"	Nireco	ZA029	Campos basalticos de Zapala	Tuff	Argillization, weak silicification // limonite	GC
208	A00TM027	39° 06' 00.7"	70° 31' 26.8"	Nireco	ZA029	Campos basalticos de Zapala	Lapilli tuff	Argillization, weak silicification / montmorillonite / limonite	XR,GC
209	A00TM028	41° 40' 05.2"	71° 06' 16.9"	Mina Maria	Mina Maria	Nahuel Huapi Fm.	Tuff	Silicification // limonite	GC
210	A00TM029	42° 08' 36.0"	71° 18' 09.4"	Cerro Coihue	Quebrada Baya	Lago Puelo granitic complex	Porphyritic Tonalite	Propylitic // pyrite diss.	GC
211	A00TM030	42° 08' 35.7"	71° 18' 25.1"	Cerro Coihue	Quebrada Baya	Lago Puelo granitic complex	Tonalite	Potassic? // limonite stain	TS,WR
212	A00TM031	42° 08' 38.2"	71° 18' 33.9"	Cerro Coihue	Quebrada Baya	Lago Puelo granitic complex	Tonalite	Argillization, weak silicification // limonite	GC
213	A00TM032	42° 08' 38.2"	71° 18' 33.9"	Cerro Coihue	Quebrada Baya	Lago Puelo granitic complex	Tonalite	Argillization / zeolite, lomonite / limonite	XR,GC
214	A00TM033	42° 08' 42.5"	71° 18' 30.4"	Cerro Coihue	Quebrada Baya		Argillic vein	Argillization, weak silicification / sericite, montmorillonite /	XR,GC
215	A00TM034	42° 08' 43.2"	71° 18' 30.4"	Cerro Coihue	Quebrada Baya		Qz vein (Float)	// limonite	GC
216	A00TM035	42° 08' 45.6"	71° 18' 27.1"	Cerro Coihue	Quebrada Baya	Lago Puelo granitic complex	Granodiorite	Potassic // pyrite diss, limonite	GC
217	A00TM037	42° 09' 40.7"	70° 30' 33.2"	Cushamen	Cushamen	Intrusive	Rhyolite	Argillization / kaolinite, sericite /	XR
218	A00TM038	42° 09' 40.7"	70° 30' 33.2"	Cushamen	Cushamen		Qz vein	// limonite	GC
219	A00TM039	42° 09' 43.5"	70° 30' 38.4"	Cushamen	Cushamen		Qz vein	// limonite	GC,DO,FI
220	A00TM040	43° 17' 05.5"	70° 59' 06.6"	Cerro Gonzalo	Arroyo Luques	Aleusco Fm.	Granodiorite	Silicification, argillization //	GC
221	A00TM041	43° 17' 02.2"	70° 59' 17.6"	Cerro Gonzalo	Arroyo Luques	Intrusive	Granodiorite	Potassic, silicification, argillization / cp vein, diss.	GC
222	A00TM042	43° 18' 54.4"	71° 02' 22.8"	Cerro Gonzalo	Cerro Gonzalo		Qz vein	// limonite	DO,FI
223	A00TM043	43° 18' 54.4"	71° 02' 22.8"	Cerro Gonzalo	Cerro Gonzalo	Aleusco Fm.	Granodiorite	Silicification, argillization // malachite, limonite stain	XR
224	A00TM044	43° 18' 25.0"	71° 01' 29.4"	Cerro Gonzalo	Cerro Gonzalo		Hydrothermal breccia	Weak silicification // malachite stain	GC
225	A00TM045	42° 53' 42.0"	71° 12' 30.6"	Joya del Sol	Brancote-Galadriel	Lago la Plata Fm.	Andesite	Argillization, weak silicification / sericite, montmorillonite /	
226	A00TM046	42° 53' 42.0"	71° 12' 30.6"	Joya del Sol	Brancote-Galadriel	Lago la Plata Fm.	Andesite	Argillization, weak silicification / sericite, montmorillonite /	XR
227	A00TM047	42° 53' 42.0"	71° 12' 30.6"	Joya del Sol	Brancote-Galadriel	Lago la Plata Fm.	Andesite	Argillization / montmorillonite /	XR
228	A00TM049	42° 53' 12.9"	71° 12' 47.8"	Joya del Sol	Brancote-Galadriel		Qz vein		OA
229	A00TM050	42° 53' 12.9"	71° 12' 47.8"	Joya del Sol	Brancote-Galadriel	Lago la Plata Fm.?	Andesite?	Argillization / sericite /	XR
230	A00TM051	42° 53' 12.9"	71° 12' 47.8"	Joya del Sol	Brancote-Galadriel		Qz vein		OA
231	A00TM053	43° 57' 47.1"	71° 34' 13.6"	Cerro Colorado	Near Cerro Riñon		Granite (Float)	Silicification, argillization / montmorillonite, sericite / py diss.	GC

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
232	A00TM054	43° 57' 52.6"	71° 33' 50.8"	Cerro Colorado	Near Cerro Riñon		Granite? (Float)	Silicification // pyrite diss.	GC
233	A00TM055	44° 41' 25.0"	71° 06' 47.2"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	Silicification, argillization / kaolinite / limonite	XR,GC
234	A00TM056	44° 41' 26.0"	71° 07' 00.9"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	Silicification // limonite stain	GC
235	A00TM057	44° 41' 23.7"	71° 07' 05.9"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	Argillization / kaolinite /	XR
236	A00TM058	44° 41' 21.5"	71° 07' 10.9"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	Argillization / kaolinite / limonite stain	XR,GC
237	A00TM059	44° 41' 31.1"	71° 05' 47.3"	Estrella Gaucha	Estrella Gaucha		Qz vein	Silicification, argillization / sericite, montmorillonite /	GC,DO,FI
238	A00TM060	44° 41' 31.1"	71° 05' 47.3"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	limonite stain	XR,GC
239	A00TM061	44° 41' 36.8"	71° 05' 44.5"	Estrella Gaucha	Estrella Gaucha		Hydrothermal breccia	Silicification // limonite stain	GC
240	A00TM062	44° 41' 20.9"	71° 05' 32.2"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Altered rock	Argillization / sericite, montmorillonite / cubic py(limonite) diss.	XR,GC
241	A00TM065	45° 00' 13.7"	71° 27' 28.2"	Cerro Blanco	Cerro Blanco		Qz vein	// limonite	GC
242	A00TM066	45° 00' 24.7"	71° 27' 31.8"	Cerro Blanco	Cerro Blanco		Qz vein	// pyrite (limonite)	GC
243	A00TM067	45° 00' 24.7"	71° 27' 31.8"	Cerro Blanco	Cerro Blanco	Lago la Plata Fm.?	Altered rock	Argillization / sericite, montmorillonite / limonite stain	XR
244	A00TM068	45° 00' 32.7"	71° 27' 25.3"	Cerro Blanco	Cerro Blanco		Qz vein	// limonite	GC
245	A00RM001	37° 15' 06.9"	70° 39' 18.1"	Andacollo	Sur los Maitenez	Intrusive	Volcanic rock	Silicification / sericite / limonite, hematite	
246	A00RM002	37° 14' 30.4"	70° 39' 37.5"	Andacollo	Sur los Maitenez	Intrusive	Volcanic rock	Silicification / kaolinite / limonite-qz network	
247	A00RM003	37° 11' 27.0"	70° 37' 45.4"	Andacollo	Mina Sofia nivel4	Huaraco Fm. (Andacollo Gr.)	Mudstone(ore)	Phyllic // py:cp:gn:sp diss.	
248	A00RM004	37° 11' 27.0"	70° 37' 45.4"	Andacollo	Mina Sofia nivel4	Huaraco Fm. (Andacollo Gr.)	Mudstone(ore)	Phyllic // py:cp:gn:sp diss.	
249	A00RM005	36° 58' 50.2"	70° 38' 45.3"	Butalon Norte	Butalon Norte	Coiyoi Fm.	Volcaniclastic rock	Silicification // magnetite	XR
250	A00RM006	36° 58' 49.0"	70° 38' 45.0"	Butalon Norte	Butalon Norte	Coiyoi Fm.	Pebble dyke	Silicification // magnetite	
251	A00RM007	37° 01' 08.5"	70° 39' 48.2"	Butalon Norte	CM010	Coiyoi Fm.	Volcanic rock	Silicification // limonite	XR
252	A00RM008	37° 01' 03.1"	70° 39' 54.8"	Butalon Norte	CM010	Coiyoi Fm.	Volcanic rock	Silicification / sericite / limonite	
253	A00RM009	37° 07' 21.2"	70° 37' 19.9"	Andacollo	CM011	Coiyoi Fm.	Volcanic rock	Silicification / sericite / pyrite diss.	GC
254	A00RM010	37° 26' 41.3"	70° 26' 45.1"	Cerro Caicayen	Cerro Caicayen	Cuyo Gr.	Mudstone	Silicification / montmorillonite, kaolinite / limonite	
255	A00RM011	37° 27' 11.8"	70° 26' 44.1"	Cerro Caicayen	Cerro Caicayen	Intrusive (Grupo Molle)	Dacite porphyry	Phyllic / sericite / pyrite:limonite	GC
256	A00RM012	37° 11' 29.8"	70° 37' 47.0"	Andacollo	Mina Sofia nivel4	Intrusive	Dacite porphyry	Weak //	GC
257	A00RM013	37° 11' 59.0"	70° 35' 59.2"	Andacollo	Arroyo Huaraco	Permian Intrusive	Granite	Weak // qz vein:py diss.	TS,WR
258	A00RM014	37° 13' 08.1"	70° 40' 31.2"	Andacollo	Cerro Colo	Intrusive	Granite		
259	A00RM015	37° 13' 08.7"	70° 40' 32.0"	Andacollo	Cerro Colo	Intrusive	Dacite porphyry	Potassic? // qz vein	
260	A00RM016	38° 12' 59.2"	70° 32' 22.8"	Campana Mahuida	Campana Mahuida	Tordillo Fm.	Sed. Rock	Phyllic //	GC
261	A00RM017	38° 12' 46.4"	70° 32' 25.6"	Campana Mahuida	Campana Mahuida	Tordillo Fm.	Sed. Rock	Phyllic // limonite	GC
262	A00RM018	38° 12' 49.7"	70° 35' 25.2"	Campana Mahuida	Mina Angelica	Ore deposit	Barite vein	// barite:gn:sp:mo	
263	A00RM019	38° 11' 50.1"	70° 35' 50.2"	Campana Mahuida	Mina Angelica	Ore deposit	Barite vein	// barite:Fe oxides	
264	A00RM020	39° 12' 49.5"	70° 36' 25.3"	La Voluntad	La Voluntad	Intrusive	Qz. vein in Granodiorite	Potassic // Fe oxides, muscovite	GC

Appendix-2 Samples taken for the survey.

9/18

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
265	A00RM021	39° 12' 50.8"	70° 36' 24.2"	La Voluntad	La Voluntad	Intrusive (La Voluntad Complex)	Granodiorite	Potassic // Fe oxide, green Cu	GC
266	A00RM022	39° 03' 01.9"	70° 31' 51.3"	Nireco	Near ZA027	Campos basalticos de Zapala	Volcaniclastic rock	Silicification / sericite /	XR
267	A00RM023	39° 02' 51.2"	70° 31' 58.5"	Nireco	Near ZA027	Campos basalticos de Zapala	Volcaniclastic rock	Silicification / montmorillonite, sericite /	XR,GC
268	A00RM024	39° 01' 54.5"	70° 32' 28.9"	Nireco	ZA026	Campos basalticos de Zapala	Volcaniclastic rock	Silicification / kaolinite, pyrophyllite /	XR
269	A00RM025	39° 03' 06.5"	70° 32' 07.7"	Nireco	Near ZA027	Campos basalticos de Zapala	Volcaniclastic rock	/ sericite /	TS
270	A00RM026	38° 57' 58.0"	70° 36' 47.5"	Carreri Malal	Carreri Malal	Intrusive	Granite	Weak //	
271	A00RM027	38° 58' 37.0"	70° 35' 02.0"	Carreri Malal	Near Carreri Malal	Campos basalticos de Zapala	Basalt		
272	A00RM028	41° 40' 02.3"	71° 06' 15.6"	Mina Maria	Mina Maria	Nahuel Huapi Fm. (Fuapi?)	Andesite?	Propyritic //	XR,GC
273	A00RM029	41° 40' 10.0"	71° 06' 43.0"	Mina Maria	Mina Maria		Qz vein (ore)	Silicification // gn-py-cp-green Cu	PT,OA
274	A00RM030	42° 08' 36.4"	71° 18' 27.6"	Cerro Coihue	Quebrada Baya	Lago Puelo granitic complex	Tonalite	Silicification / zeolite /	XR,GC
275	A00RM031	42° 08' 37.7"	71° 18' 29.0"	Cerro Coihue	Quebrada Baya		Tourmaline vein		TS
276	A00RM032	42° 08' 45.4"	71° 18' 33.0"	Cerro Coihue	Quebrada Baya	Intrusive (Tertiary?)	Andesitic dyke	Propyritic / montmorillonite / K-feldspar, calcite vein	TS
277	A00RM033	42° 08' 44.9"	71° 18' 27.3"	Cerro Coihue	Quebrada Baya	Intrusive (Tertiary?)	Andesitic dyke	Propyritic / chlorite, epidote, calcite / limonite-pyrite	PT,XR,GC
278	A00RM034	42° 09' 38.7"	70° 30' 32.1"	Cushamen	Cushamen	Intrusive (Tertiary?)	Rhyolite	Argillization / sericite, kaolinite /	XR
279	A00RM035	42° 09' 36.1"	70° 30' 30.6"	Cushamen	Cushamen	Intrusive (Tertiary?)	Rhyolite	Argillization / gypsum, sericite /	XR
280	A00RM036	42° 09' 43.7"	70° 30' 35.9"	Cushamen	Cushamen	Intrusive (Tertiary?)	Rhyolite	Silicification / sericite /	GC
281	A00RM037	42° 09' 47.2"	70° 30' 31.6"	Cushamen	Cushamen		Qz vein	Silicification / gypsum, sericite, montmorillonite / py-limonite	GC
282	A00RM038	42° 09' 42.9"	70° 30' 17.3"	Cushamen	Cushamen	Intrusive (Tertiary?)	Rhyolite	Silicification/sericite,montmorillonite/qz vein network, tourmaline veinlet	TS
283	A00RM039	43° 17' 03.0"	70° 59' 11.0"	Cerro Gonzalo	Arroyo Luques	Intrusive (Aleusco Fm.)	Granodiorite	Silicification, potassic?/ sericite/ qz vein, hematite	
284	A00RM040	43° 17' 01.0"	70° 59' 16.0"	Cerro Gonzalo	Arroyo Luques	Intrusive	Granodiorite/porphyry	Silicification, potassic? / qz vein, cp-py-limonite	PT,XR,GC
285	A00RM041	43° 18' 53.2"	71° 02' 24.5"	Cerro Gonzalo	Cerro Gonzalo	Intrusive	Breccia pipe	Silicification, phyllic // qz vein, limonite-green Cu, tourmaline	XR,GC
286	A00RM042	43° 18' 25.2"	71° 01' 26.2"	Cerro Gonzalo	Arroyo Luques	Intrusive	Hydrothermal breccia	Silicification // qz, green Cu, cp, tourmaline	PT,GC
287	A00RM043	43° 17' 35.0"	71° 00' 25.0"	Cerro Gonzalo	Arroyo Luques		Altered rock	Limonitization // limonite, hematite, green Cu	GC
288	A00RM044	43° 17' 06.3"	71° 00' 24.9"	Cerro Gonzalo	Arroyo Luques		Altered rock	Limonitization // limonite, hematite, green Cu	
289	A00RM045	43° 17' 28.7"	70° 59' 37.1"	Cerro Gonzalo	Arroyo Luques	Intrusive (Aleusco Fm.)	Granodiorite	Phyllic / sericite / py-cp-mo-biotite	GC
290	A00RM046	42° 52' 22.1"	71° 12' 09.6"	Joya del Sol	Brancote-Galadriel Norte		Banded Qz vein	Silicification // qz-white chalcedony	OA
291	A00RM047	42° 53' 28.3"	71° 12' 30.4"	Joya del Sol	Brancote-Elena Sur		Banded Qz vein	Silicification // qz-black chalcedony	
292	A00RM048	42° 53' 38.7"	71° 12' 30.4"	Joya del Sol	Brancote-Elena Sur	Lago la Plata Fm.	Andesitic rock	Argillization //	TS
293	A00RM049	42° 53' 24.0"	71° 12' 44.0"	Joya del Sol	Brancote-Julia	Intrusive	Hydrothermal breccia	Silicification // Vuggy silica	TS
294	A00RM050	42° 51' 51.0"	71° 11' 19.5"	Joya del Sol	Brancote-North of Galadriel		Qz vein	Silicification // Massive white qz	
295	A00RM051	42° 51' 51.6"	71° 11' 15.5"	Joya del Sol	Brancote-North of Galadriel	Lago la Plata Fm.	Altered rock	Silicification, argillization / sericite / py-limonite	
296	A00RM052	42° 51' 50.1"	71° 11' 15.0"	Joya del Sol	Brancote-North of Galadriel	Lago la Plata Fm.	Altered rock	Argillization / sericite / limonite	
297	A00RM053	43° 57' 42.0"	71° 34' 33.0"	Cerro Colorado	Near Cerro Riñon		Float	Silicification / pyrophyllite / py-limonite	

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locahty	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
298	A00RM054	43° 41' 49.0"	70° 33' 58.0"	Gabros de Tecka	Gabros de Tecka	Intrusive (Tecka Fm.)	Gabbro		PC
299	A00RM055	43° 41' 58.0"	70° 34' 12.0"	Gabros de Tecka	Gabros de Tecka	Osta Arena Fm. (Liasic)	Hornfels	Contact metamorphism / clinopyroxene, diopside	
300	A00RM056	43° 42' 33.0"	70° 33' 56.0"	Gabros de Tecka	Gabros de Tecka	Intrusive (Tecka Fm.)	Gabbro		
301	A00RM057	43° 43' 15.1"	70° 33' 32.8"	Gabros de Tecka	Gabros de Tecka	Intrusive (Tecka Fm.)	Gabbro		PT,PC
302	A00RM058	43° 43' 12.1"	70° 37' 12.7"	Gabros de Tecka	Gabros de Tecka	Intrusive (Tecka Fm.)	Gabbro		PT
303	A00RM059	44° 41' 23.9"	71° 06' 47.4"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Sed. Rock	Silicification, argillization / kaolinite /	XR
304	A00RM060	44° 41' 24.0"	71° 06' 49.3"	Estrella Gaucha	Estrella Gaucha	Divisadero Fm.	Ignimbrite (welded tuff)	Silicification, argillization / kaolinite /	TS
305	A00RM061	44° 41' 20.7"	71° 07' 06.8"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Sed. Rock	Silicification, argillization / kaolinite /	
306	A00RM062	44° 41' 21.7"	71° 07' 07.7"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Sed. Rock (Float)	Argillization //	XR
307	A00RM063	44° 41' 23.0"	71° 07' 12.5"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.	Sed. Rock	Argillization / kaolinite / dickite	XR
308	A00RM064	44° 41' 36.5"	71° 05' 45.2"	Estrella Gaucha	Estrella Gaucha	in Apeleg Fm.	Brecciated qz vein	Silicification //	GC
309	A00RM065	44° 41' 19.3"	70° 05' 29.4"	Estrella Gaucha	Estrella Gaucha	Apeleg Fm.?	white altered rock	Silicification, argillization / montmorillonite-sericite /	XR
310	A00RM066	45° 00' 13.7"	71° 27' 25.2"	Cerro Blanco	Cerro Blanco	in Lago La Plata Fm.	Brecciated qz vein (Float)	Silicification // py-limonite-hematite	GC
311	A00RM067	45° 00' 12.9"	71° 27' 28.2"	Cerro Blanco	Cerro Blanco	Lago la Plata Fm.?	white altered rock	Silicification, argillization / sericite / Silicification, argillization / sericite, montmorillonite / qz phenocrystal	XR
312	A00RM068	45° 00' 21.4"	71° 27' 33.6"	Cerro Blanco	Cerro Blanco	Lago la Plata Fm.	white altered rock with qz pheno.		XR
313	A00RM069	45° 00' 24.9"	71° 27' 30.9"	Cerro Blanco	Cerro Blanco	in Lago La Plata Fm.	Qz vein (Float)	Silicification // qz-limonite	GC
314	A00RM070	45° 01' 00.2"	71° 27' 06.8"	Cerro Blanco	Cerro Blanco	Tres Lagunas Fm.?	Laminated Sed. Rock	Silicification // qz-chalcedony-calcite-limonite-sulfide	GC
315	A00NK101	39° 01' 49.4"	70° 32' 06.7"	Nireco	Nireco (ZA021)	PTR, Fm. Choiyoi	Quartz	// Limonite	GC
316	A00NK102	39° 00' 56.8"	70° 31' 40.7"	Nireco	Nireco (ZA021)	PTR, Fm. Choiyoi	Rhyolite	Silicification, argillization //	XR, GC
317	A00NK103	39° 00' 53.9"	70° 31' 13.8"	Nireco	Nireco (ZA021)	PTR, Fm. Choiyoi	Quartz vein (float)	// Small metallic mineral	GC
318	A00NK104	39° 00' 55.0"	70° 31' 12.4"	Nireco	Nireco (ZA021)	PTR, Fm. Choiyoi	Crystal tuff	//	TS
319	A00NK105	39° 12' 41.0"	70° 36' 46.4"	La Voluntad	La Voluntad North (ZA001)	Prg. Granitoids (La Voluntad complex)	Quartz porphyry	Silicification, potassium feldspar //	TS
320	A00NK106	39° 12' 41.0"	70° 36' 46.4"	La Voluntad	La Voluntad North (ZA001)	Prg. Granitoids (La Voluntad complex)	Quartz porphyry	Silicification, sugary //	
321	A00NK107	39° 12' 38.2"	70° 36' 48.6"	La Voluntad	La Voluntad North (ZA001)	Prg. Granitoids (La Voluntad complex)	Quartz porphyry	Silicification, argillization //	XR
322	A00NK108	39° 12' 25.1"	70° 36' 48.6"	La Voluntad	La Voluntad North (ZA001)	Prg. Granitoids (La Voluntad complex)	Granitoid	Argillization //	XR
323	A00NK109	39° 07' 33.6"	70° 37' 48.1"	La Voluntad	La Voluntad North (ZA034)	Prg. Granitoids (La Voluntad complex)	Granite	//	TS
324	A00NK110	39° 07' 33.6"	70° 37' 48.1"	La Voluntad	La Voluntad North (ZA034)	Prg. Granitoids (La Voluntad complex)	Aplite	Tourmaline? //	TS
325	A00NK111	39° 07' 30.2"	70° 38' 05.2"	La Voluntad	La Voluntad North (ZA034)	Prg. Granitoids (La Voluntad complex)	Granitoid	// Limonite	XR
326	A00NK112	39° 07' 32.2"	70° 38' 07.8"	La Voluntad	La Voluntad North (ZA034)	Prg. Granitoids (La Voluntad complex)	Granitoid	// Limonite	XR
327	A00NK113	39° 07' 49.0"	70° 38' 14.2"	La Voluntad	La Voluntad North (ZA034)	Prg. Granitoids (La Voluntad complex)	Rhyolite dike	// Limonite, small pyrite	GC
328	A00NK114	39° 08' 28.9"	70° 34' 41.5"	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Rhyolitic tuff	Argillization // Limonite	XR, GC
329	A00NK115	39° 08' 28.9"	70° 34' 41.5"	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Rhyolitic lapili tuff	Argillization //	XR
330	A00NK116	39° 08' 34.3"	70° 34' 33.9"	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Andesite	//	XR

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
331	A00NK117	39° 08' 34.3'	70° 34' 33.9'	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Rhyolitic tuff	Argillization // Limonite	GC
332	A00NK118	39° 08' 30.9'	70° 34' 49.3'	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Andesitic tuff breccia	Chlorite //	XR
333	A00NK119	39° 08' 33.5'	70° 34' 49.9'	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Quartz vein & tuff	Silicification //	GC
334	A00NK120	39° 08' 43.2'	70° 34' 47.6'	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Rhyolitic tuff	Silicification, argillization //	XR
335	A00NK121	39° 08' 46.6'	70° 34' 54.2'	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Andesitic tuff	Chlorite // Hematite	XR
336	A00NK122	39° 08' 46.6'	70° 34' 54.2'	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Rhyolitic tuff	Silicification, argillization //	XR
337	A00NK123	39° 10' 08.2'	70° 34' 17.0'	La Voluntad	La Voluntad North (ZA032)	PTR, Fm. Choiyoi	Undefined	Argillization // Limonite	XR, GC
338	A00NK124	38° 52' 31.0'	70° 47' 33.8'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Rhyolitic tuff	Silicification, argillization //	XR, GC
339	A00NK125	38° 52' 24.4'	70° 47' 33.2'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Rhyolitic tuff	Silicification, argillization //	XR
340	A00NK126	38° 52' 09.1'	70° 47' 46.0'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Rhyolitic tuff, quartz vein	Silicification //	GC
341	A00NK127	38° 52' 08.4'	70° 47' 50.7'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Rhyolitic lapili tuff	Silicification // Limonite	XR, GC
342	A00NK128	38° 52' 28.5'	70° 47' 58.4'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Rhyolitic tuff breccia	Silicification // Limonite	XR, GC
343	A00NK129	38° 52' 31.5'	70° 48' 06.9'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Rhyolite	Silicification // Limonite	XR, GC
344	A00NK130	38° 49' 21.7'	70° 39' 12.0'	Palau Mahuida	Palau Mahuida	PC2, Fm. Colohuincul eq.	Biotite-Garnet gneiss, quartz vein	//	GC
345	A00NK131	38° 47' 06.9'	70° 40' 06.0'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Tuff	Argillization //	XR, GC
346	A00NK132	38° 46' 42.7'	70° 40' 29.2'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Undefined	Silicification, kaolin // Pyrite dissemination	PT, XR, GC
347	A00NK133	38° 46' 42.7'	70° 40' 29.2'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Andesite	Argillization // Limonite	XR
348	A00NK134	38° 46' 42.7'	70° 40' 29.2'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Quartz-pyrite vein	// Pyrite	GC
349	A00NK135	38° 46' 42.7'	70° 40' 29.2'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Undefined	Kaolin ???	XR
350	A00NK136	38° 46' 42.7'	70° 40' 29.2'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Undefined	// Limonite	GC
351	A00NK137	38° 46' 42.7'	70° 40' 29.2'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Andesite porphyry	//	TS
352	A00NK138	38° 46' 35.1'	70° 40' 26.0'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Andesite porphyry	Silicification, argillization //	GC
353	A00NK139	38° 46' 35.1'	70° 40' 25.3'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Hydrothermal breccia	Silicification // Pyrite	GC
354	A00NK140	38° 46' 27.4'	70° 40' 23.0'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Undefined	Alunite ???	XR
355	A00NK141	38° 46' 25.2'	70° 40' 22.2'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Undefined	Alunite ???	XR
356	A00NK142	38° 47' 11.2'	70° 41' 07.9'	Palau Mahuida	Palau Mahuida (ZA007)	Ta2, Fm. Farallones eq.	Undefined	Alunite ???	XR
357	A00NK143	38° 47' 55.3'	70° 41' 22.3'	Palau Mahuida	Palau Mahuida	Ta2, Fm. Farallones eq.	Dacite	Jarosite ??? Hematite	XR
358	A00NK144	38° 47' 55.3'	70° 41' 22.3'	Palau Mahuida	Palau Mahuida	Ta2, Fm. Farallones eq.	Tuff	//	TS
359	A00NK145	38° 48' 06.8'	70° 40' 05.0'	Palau Mahuida	Palau Mahuida	Ta2, Fm. Farallones eq.	Undefined	Argillization // Limonite	XR
360	A00NK146	38° 48' 18.8'	70° 40' 06.5'	Palau Mahuida	Palau Mahuida	Ta2, Fm. Farallones eq.	Bsalt	//	
361	A00NK147	38° 41' 31.4'	70° 41' 29.6'	Palau Mahuida	Plau Mahuida North (ZA004)	PRg, Granitoids	Granite	//	TS
362	A00NK148	38° 41' 19.2'	70° 41' 34.4'	Palau Mahuida	Plau Mahuida North (ZA004)	PTR, Fm. Choiyoi	Andesite	Silicification //	TS
363	A00NK149	41° 32' 17.6'	71° 08' 50.4'	Rio Foyel	Cerro Carrera east		Oxide copper	//	

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit. Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
364	A00NK150	41° 30' 15.9"	71° 12' 08.4"	Rio Foyel	Cerro Carrera east (SB068)	Jg. Granitoids	Quartz vein	//	GC
365	A00NK151	41° 30' 18.2"	71° 12' 09.0"	Rio Foyel	Cerro Carrera east (SB068)	Jg. Granitoids	Granitoid	//	TS
366	A00NK152	41° 32' 38.7"	71° 09' 40.4"	Rio Foyel	Cerro Carrera east		Quartz vein (float)	//	GC
367	A00HH101	43° 18' 53.2"	71° 02' 25.9"	Cerro Gonzalo	Cerro Gonzalo, Sector 2		Massive quartz with limonite	//	
368	A00HH102	43° 18' 23.8"	71° 01' 32.7"	Cerro Gonzalo	Cerro Gonzalo, Sector 5	Kg. Cretaceous granitoids	Altered rock, hydrothermal breccia	Argillization // Quartz-malachite	TS, XR
369	A00HH103	43° 19' 08.3"	71° 00' 43.5"	Cerro Gonzalo	Cerro Gonzalo, Sector 4	Kg. Cretaceous granitoids	Altered rock	Argillization // Quartz-malachite	XR
370	A00HH104	43° 20' 04.6"	71° 05' 53.3"	Cerro Gonzalo	Cerro Gonzalo, Sector 3	J8a, Fm. Lago la Plata	Andesite	Argillization //	XR, GC
371	A00HH105	43° 20' 07.9"	71° 05' 59.6"	Cerro Gonzalo	Cerro Gonzalo, Sector 3	J8a, Fm. Lago la Plata	Hydrothermal breccia	Tourmaline //	TS, XR
372	A00HH106	43° 18' 39.8"	71° 04' 59.4"	Cerro Gonzalo	Cerro Gonzalo, Sector 6	J8a, Fm. Lago la Plata	Altered rock, hydrothermal breccia	Argillization //	XR
373	A00HH107	43° 18' 41.4"	71° 05' 16.0"	Cerro Gonzalo	Cerro Gonzalo, Sector 6	J8a, Fm. Lago la Plata	Altered rock	Argillization // Quartz-limonite	XR
374	A00HH108	43° 16' 53.4"	71° 00' 25.4"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	J8a, Fm. Lago la Plata	Altered rock	Argillization //	XR
375	A00HH109	43° 17' 05.1"	71° 00' 29.8"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	J8a, Fm. Lago la Plata	Cu oxide ore	Argillization // Malachite	XR, OA
376	A00HH110	43° 17' 21.7"	70° 59' 36.4"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	Kg. Cretaceous granitoids	Altered rock	Argillization // Black limonite	PT
377	A00HH111	43° 31' 01.8"	71° 05' 33.9"	Arroyo Cascada	Arroyo Cascada		Quartz vein with pyrite-malachite	// Pyrite-malachite	OA
378	A00HH112	43° 30' 34.6"	71° 05' 54.5"	Arroyo Cascada	Arroyo Cascada	Kg. Cretaceous granitoids	Altered granite	Silicification // Pyrite	XR, GC
379	A00HH113	43° 10' 13.3"	71° 01' 14.8"	Laguna Sunica	Laguna Sunica	Ta1, Fm. Ventana	Altered rock with clay vein	Argillization //	XR, GC
380	A00HH114	43° 10' 12.5"	71° 01' 20.3"	Laguna Sunica	Laguna Sunica	Ta1, Fm. Ventana	Andesite	// Pyrite	XR, GC
381	A00HH115	43° 30' 12.0"	71° 06' 33.1"	Arroyo Cascada	Arroyo Cascada	J8a, Fm. Lago la Plata	Andesite	Silicification, epidote // Pyrite	GC
382	A00HH116	43° 30' 54.9"	71° 09' 43.0"	Cerro Cuche	Cerro Cuche		Quartz vein	Black mineral (tourmaline?) //	PT, GC
383	A00HH117	43° 30' 57.0"	71° 09' 42.6"	Cerro Cuche	Cerro Cuche	Kg. Cretaceous granitoids	Quartz porphyry	// Pyrite, limonite	GC
384	A00HH118	43° 30' 57.9"	71° 09' 41.0"	Cerro Cuche	Cerro Cuche	J8a, Fm. Lago la Plata	Sandstone	Silicification // Pyrite	GC
385	A00HH119	43° 31' 03.2"	71° 09' 36.5"	Cerro Cuche	Cerro Cuche	J8a, Fm. Lago la Plata	Sandstone	Mica, clay // Pyrite	GC
386	A00HH120	43° 32' 15.3"	71° 08' 47.5"	Cerro Cuche	Cerro Cuche	J8a, Fm. Lago la Plata	Sandstone	Silicification // Pyrite	
387	A00HH121	43° 32' 15.2"	71° 08' 40.8"	Cerro Cuche	Cerro Cuche		Metallic mineral vein	Clay mineral // Metallic mineral	PT, XR
388	A00HH122	43° 31' 40.9"	71° 09' 58.5"	Cerro Cuche	Cerro Cuche	Kg. Cretaceous granitoids	Quartz porphyry	Argillization // Limonite	XR, GC
389	A00HH123	42° 09' 45.0"	71° 24' 01.7"	Condorcanqui	Condorcanqui		Quartz vein	//	GC
390	A00HH124	42° 09' 41.8"	71° 23' 58.3"	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite	// Malachite, chalcopryrite, pyrite	OA
391	A00HH125	42° 09' 32.5"	71° 23' 50.1"	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite	// Cu mineral	
392	A00HH126	42° 09' 35.6"	71° 23' 48.0"	Condorcanqui	Condorcanqui	Intrusive	Quartz porphyry	// Malachite, chalcopryrite	PT, OA
393	A00HH127	42° 10' 05.3"	71° 24' 04.4"	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite	Epidote // Malachite, chalcopryrite	OA
394	A00HH128	42° 19' 42.6"	71° 29' 19.8"	Epuyen	Rio Blanco	Kg. Cretaceous granitoids	Quartz porphyry	//	TS, XR, GC
395	A00HH129	42° 19' 42.6"	71° 29' 19.8"	Epuyen	Rio Blanco	Kg. Cretaceous granitoids	Altered rock	// Malachite, chalcopryrite	OA
396	A00HH130	42° 16' 21.3"	71° 23' 44.5"	Epuyen	Arroyo Pedregoso	Jm, Fm. Piltriquitron	Silicified tuff	White clay // Malachite	XR, OA

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
397	A00HH131	42° 15' 55.7"	71° 24' 05.8"	Epuyen	Arroyo Pedregoso		Undefined (float)	// Pyrite	GC
398	A00HH132	42° 15' 55.7"	71° 24' 05.8"	Epuyen	Arroyo Pedregoso	Intrusive	Aplite or felsite	White clay // Pyrite	TS, XR, GC
399	A00HH133	42° 21' 14.9"	71° 26' 30.9"	Epuyen	South of SB083		Andesite (float)	// Quartz-pyrite	GC
400	A00HH134	42° 21' 14.9"	71° 26' 30.9"	Epuyen	South of SB083		Sandstone (float)	// Quartz-pyrite	GC
401	A00HH135	42° 20' 13.0"	71° 25' 18.5"	Epuyen	Southeast of SB082	Jm, Fm. Piltriquitron	Andesite with quartz vein	// Quartz-calcite-pyrite	GC
402	A00HH136	42° 20' 13.0"	71° 25' 18.5"	Epuyen	Southeast of SB082		Silicified rock (float)	silicification // Pyrite	GC
403	A00MZ101	43° 18' 24.2"	71° 01' 32.8"	Cerro Gonzalo	Cerro Gonzalo, Sector 5	Kg, Cretaceous granitoids	Silicified rock	Quartz-sericite // Black Cu pitch	XR, GC
404	A00MZ102	43° 19' 07.5"	71° 00' 41.0"	Cerro Gonzalo	Cerro Gonzalo, Sector 4	Kg, Cretaceous granitoids	Silicified rock	Quartz-sericite // Malachite	XE, GC
405	A00MZ103	43° 18' 57.7"	71° 00' 44.6"	Cerro Gonzalo	Cerro Gonzalo, Sector 4	Kg, Cretaceous granitoids	Granodiorite	//	TS, WR
406	A00MZ104	43° 20' 05.2"	71° 05' 53.7"	Cerro Gonzalo	Cerro Gonzalo, Sector 3	JBa, Fm. Lago la Plata	Hydrothermal breccia	Silicification // Limonite	XR, GC
407	A00MZ105	43° 20' 23.6"	71° 06' 22.1"	Cerro Gonzalo	Cerro Gonzalo, Sector 3	Kg, Cretaceous granitoids	Quartz porphyry	Quartz-sericite // Limonite	XR, GC
408	A00MZ106	43° 18' 43.5"	71° 04' 53.8"	Cerro Gonzalo	Cerro Gonzalo, Sector 6	Kg, Cretaceous granitoids	Silicified rock	Quartz-sericite // Red limonite	XR, GC
409	A00MZ107	43° 16' 50.8"	71° 00' 02.8"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	Kg, Cretaceous granitoids	Leucocratic granitoid	Potassic //	TS
410	A00MZ108	43° 16' 49.5"	71° 00' 01.5"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	Kg, Cretaceous granitoids	Granodiorite	Potassic // Hypogene chalcopryite	PT, WR, KA
411	A00MZ109	43° 16' 58.5"	71° 00' 30.9"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	Kg, Cretaceous granitoids	Altered granitoid	Quartz-sericite // Intensive limonite	XR
412	A00MZ110	43° 17' 27.1"	70° 59' 39.4"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	Kg, Cretaceous granitoids	Quartz porphyry	Quartz-sericite // Py-Cp-Mo dissemination	XR, GC
413	A00MZ111	43° 17' 33.9"	71° 00' 29.7"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	Kg, Cretaceous granitoids	Quartz porphyry	Quartz-sericite // Red limonite etc	XR, GC
414	A00MZ112	43° 17' 00.7"	70° 59' 21.0"	Cerro Gonzalo	Cerro Gonzalo, Sector 1	Kg, Cretaceous granitoids	Granite	Quartz-sericite // Hypogene chalcopryite	
415	A00MZ113	43° 30' 48.0"	71° 05' 26.8"	Arroyo Cascada	Arroyo Cascada	JBa, Fm. Lago la Plata	Altered volcancs	Silicification // Limonite	XR, GC
416	A00MZ114	43° 31' 01.9"	71° 05' 33.8"	Arroyo Cascada	Arroyo Cascada	Kg, Cretaceous granitoids	Micro granodiorite	//	TS
417	A00MZ115	43° 30' 51.5"	71° 05' 38.6"	Arroyo Cascada	Arroyo Cascada	JBa, Fm. Lago la Plata	Altered volcancs	Silicification // Limonite	XR, GC
418	A00MZ116	43° 30' 37.1"	71° 05' 50.1"	Arroyo Cascada	Arroyo Cascada	Quartz vein	Quartz vein	// Large grain pyrite	GC
419	A00MZ117	43° 10' 10.7"	71° 01' 20.7"	Laguna Sunica	Laguna Sunica	Ta1, Fm. Ventana	Altered volcancs	Silicification, argillization // Pyrite, limonite	XR, GC
420	A00MZ118	43° 10' 15.6"	71° 01' 14.2"	Laguna Sunica	Laguna Sunica	Zeolite vein	Zeolite vein	//	XR
421	A00MZ119	43° 30' 23.6"	71° 06' 25.8"	Arroyo Cascada	Arroyo Cascada	Quartz vein	Quartz vein	//	DO, FI
422	A00MZ120	43° 30' 11.9"	71° 06' 33.4"	Arroyo Cascada	Arroyo Cascada	Quartz vein	Quartz vein (float)	// Limonite	GC
423	A00MZ121	43° 27' 58.5"	71° 03' 31.4"	Arroyo Cascada	Princess	JBa, Fm. Lago la Plata	Altered volcancs (tailing)	Silicification // Pyrite dissemination	XR, GC
424	A00MZ122	43° 27' 42.0"	71° 03' 28.7"	Arroyo Cascada	Princess	Quartz vein	Quartz vein (float)	//	GC
425	A00MZ123	43° 30' 42.9"	71° 09' 49.7"	Cerro Cuche	Cerro Cuche north	Quartz vein	Quartz vein	// Galena dissemination	OA
426	A00MZ124	43° 30' 36.0"	71° 10' 01.8"	Cerro Cuche	Cerro Cuche north	JBa, Fm. Lago la Plata	Silt	Silicification // Pyrite dissemination	XR, GC
427	A00MZ125	43° 32' 14.4"	71° 08' 42.2"	Cerro Cuche	Cerro Cuche south	Quartz-sulfide vein	Quartz-sulfide vein	// Galena-pyrite-limonite	PT, OA
428	A00MZ126	43° 31' 52.2"	71° 09' 43.6"	Cerro Cuche	Cerro Cuche south	Intrusion	Quartz porphyry	Tourmaline // Pyrite dissemination	XR, GC
429	A00MZ127	43° 32' 22.6"	71° 10' 25.0"	Cerro Cuche	Cerro Cuche south	Gossan	Gossan	// Massive limonite	OA

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
430	A00MZ128	42° 09' 43.2'	71° 24' 00.6'	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite	Propylite // Bornite, malachite	
431	A00MZ129	42° 09' 46.5'	71° 24' 01.5'	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite	Propylite // Chalcopyrite, quartz-calcite veinlets	XR
432	A00MZ130	42° 09' 46.5'	71° 24' 01.5'	Condorcanqui	Condorcanqui	Dyke	Andesite	Fresh // Post mineralization	TS, KA
433	A00MZ131	42° 09' 41.9'	71° 23' 58.4'	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite	Silicification // Chalcopyrite dissemination	DS
434	A00MZ132	42° 09' 32.5'	71° 23' 49.9'	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesitic tuff breccia	Silicification // Chalcocite, malachite	XR, OA
435	A00MZ133	42° 09' 36.6'	71° 23' 46.5'	Condorcanqui	Condorcanqui	Dyke	Dacite porphyry	// Chalcopyrite dissemination	
436	A00MZ134	42° 10' 12.4'	71° 24' 05.8'	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesitic rock	Silicification // Malachite Amygdale epidote and calcite // Chalcopyrite in amygdale part	XR, OA
437	A00MZ135	42° 10' 04.0'	71° 24' 04.1'	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite		DS
438	A00MZ136	42° 09' 42.5'	71° 24' 07.0'	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite	Epidote //	DS
439	A00MZ137	42° 12' 08.1'	71° 23' 40.2'	Condorcanqui	North of Epuyen town	Intrusion	Granodiorite	//	TS, WR, DS
440	A00MZ138	42° 09' 11.3'	71° 23' 53.9'	Condorcanqui	North of Condorcanqui	Jm, Fm. Piltriquitron	Andesite	Propylite //	GC
441	A00MZ139	42° 09' 55.4'	71° 23' 19.9'	Condorcanqui	Condorcanqui	Jm, Fm. Piltriquitron	Andesite	//	TS, WR, KA
442	A00MZ140	42° 19' 44.0'	71° 29' 20.9'	Epuyen	Rio Blanco	Kg, Cretaceous granitoids	Qz porphyry	Silicification // Quartz vein and pyrite dissemination	GC
443	A00MZ141	42° 19' 53.6'	71° 29' 08.0'	Epuyen	Rio Blanco	Kg, Cretaceous granitoids	Granitoids (float)	Silicification // Quartz vein and pyrite dissemination	GC
444	A00MZ142	42° 15' 54.6'	71° 24' 03.8'	Epuyen	Arroyo Pedregoso	Quartz vein	Quartz vein (float)	//	GC
445	A00MZ143	42° 21' 14.7'	71° 26' 30.7'	Epuyen	South of SB083	Quartz vein	Quartz vein (float)	Silicification // Pyrite dissemination	XR, GC
446	A00MZ144	42° 21' 14.7'	71° 26' 30.7'	Epuyen	South of SB083	Jm, Fm. Piltriquitron	Silicified rock	Silicification // Limonite	GC
447	A00MZ145	42° 20' 14.3'	71° 25' 19.3'	Epuyen	Southeast of SB082	Calcite vein	Calcite vein	//	GC
448	A00MZ146	42° 20' 14.3'	71° 25' 19.3'	Epuyen	Southeast of SB082	Jm, Fm. Piltriquitron	Silicified rock	Silicification //	XR
449	A00MZ147	42° 20' 14.3'	71° 25' 19.3'	Epuyen	Southeast of SB082	Quartz vein	Quartz vein (float)	// Pyrite dissemination	GC
450	A00MZ148	42° 13' 19.0'	71° 27' 20.1'	Epuyen	Lago Epuyen	Quartz vein	Quartz vein	//	GC, DO, FI
451	A00MZ149	42° 13' 19.0'	71° 27' 20.1'	Epuyen	Lago Epuyen	Jm, Fm. Piltriquitron	Silicified rock	Silicification //	XR
452	A00MZ150	42° 13' 18.7'	71° 26' 41.6'	Epuyen	Lago Epuyen	Quartz vein	Quartz vein	//	GC
453	A00TM101	36° 37' 51.8'	70° 36' 59.6'	Villa Aguas Calientes	Arroyo Ailenco	Ta2, Fm. Cajón Negro	Altered rock	Argillization / Montmorillonite, sericite /	XR, GC
454	A00TM102	36° 42' 18.7'	70° 38' 00.0'	Villa Aguas Calientes	Arroyo la Totora		Quartz vein	//	GC
455	A00TM103	36° 39' 12.9'	70° 36' 53.7'	Villa Aguas Calientes	Arroyo Manchana Covunco		Quartz vein	//	GC, FI
456	A00TM104	36° 32' 42.9'	70° 37' 15.1'	Villa Aguas Calientes	Alteration zone near ML013	Ta2, Fm. Cajón Negro	Altered rock	Argillization / Montmorillonite / Pyrite dissemination	XR, GC
457	A00TM105	36° 32' 42.9'	70° 37' 15.0'	Villa Aguas Calientes	Alteration zone near ML013	Ta2, Fm. Cajón Negro	Altered rock	Argillization / Montmorillonite / Pyrite dissemination	XR, GC
458	A00TM106	36° 32' 45.5'	70° 37' 12.4'	Villa Aguas Calientes	Alteration zone near ML013	Ta2, Fm. Cajón Negro	Andesite	Propylitic //	TS
459	A00TM107	36° 52' 06.9'	70° 37' 43.6'	Varvarco	Mina sin nombre	Intrusive	Granodiorite	Argillization / Sericite / Limonite	XR, GC
460	A00TM108	36° 52' 09.2'	70° 37' 43.4'	Varvarco	Mina sin nombre	Intrusive	Granodiorite	Silicification // Limonite	XR, GC
461	A00TM109	36° 52' 09.3'	70° 37' 43.5'	Varvarco	Mina sin nombre		Quartz vein	// Pyrite	GC, FI
462	A00TM110	36° 51' 57.1'	70° 36' 21.5'	Varvarco	Mina Santos	Intrusive	Granodiorite	//	TS

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
463	A00TM111	36° 51' 57.4'	70° 36' 21.7'	Varvarco	Mina Santos	Intrusive	Granodiorite	Argillization / Sericite / Pyrite dissemination, limonite	XR, GC
464	A00TM112	36° 51' 57.5'	70° 36' 21.6'	Varvarco	Mina Santos	Ore deposit	Quartz vein	// Chalcopyrite, malachite, azurite, pyrite	OA, FI
465	A00TM113	36° 53' 22.7'	70° 38' 23.7'	Varvarco	Alteration zone near Varvarco village	PTR, Fm. Choiyoi	Rhyolitic tuff	Argillization / Sericite / Limonite along crack	XR, GC
466	A00TM114	36° 47' 53.6'	70° 35' 02.9'	Varvarco	Alteration zone along Arroyo Aqueñ	PTR, Fm. Choiyoi	Tuff	Argillization / Sericite / Pyrite dissemination	XR, GC
467	A00TM115	36° 47' 54.4'	70° 35' 05.2'	Varvarco	Alteration zone along Arroyo Aqueñ	PTR, Fm. Choiyoi	Tuff	Argillization, silicification / Sericite / Pyrite dissemination	XR, GC
468	A00TM116	36° 48' 00.2'	70° 35' 13.9'	Varvarco	Alteration zone along Arroyo Aqueñ	PTR, Fm. Choiyoi	Tuff breccia	Silicification / Sericite / Pyrite dissemination	XR, GC
469	A00TM117	36° 47' 57.0'	70° 35' 17.0'	Varvarco	Alteration zone along Arroyo Aqueñ	PTR, Fm. Choiyoi	Altered rock	Silicification // Pyrite dissemination	XR, GC
470	A00TM118	36° 47' 54.7'	70° 35' 28.0'	Varvarco	Alteration zone along Arroyo Aqueñ	PTR, Fm. Choiyoi	Tuff breccia	Silicification // Pyrite dissemination	GC
471	A00TM119	36° 47' 53.5'	70° 35' 35.3'	Varvarco	Alteration zone along Arroyo Aqueñ		Quartz vein	//	GC, FI
472	A00TM120	36° 47' 41.6'	70° 36' 29.5'	Varvarco	Alteration zone along Arroyo Aqueñ	PTR, Fm. Choiyoi	Altered rock	Argillization / Pyrophyllite /	XR
473	A00TM121	36° 47' 41.6'	70° 36' 29.5'	Varvarco	Alteration zone along Arroyo Aqueñ	PTR, Fm. Choiyoi	Altered rock	Silicification //	XR, GC
474	A00TM122	36° 55' 31.3'	70° 25' 12.7'	Cerro Collocho	Cerro Collocho	Intrusive	Dacitic andesite	Silicification, argillization //	XR, GC
475	A00TM123	36° 55' 20.0'	70° 25' 10.1'	Cerro Collocho	Cerro Collocho		Limonite-quartz vein	// Pyrite, limonite	GC
476	A00TM124	36° 55' 20.0'	70° 25' 10.1'	Cerro Collocho	Cerro Collocho	Intrusive	Dacitic andesite	Argillization / Sericite / Limonite	XR
477	A00TM125	36° 55' 15.9'	70° 25' 10.9'	Cerro Collocho	Cerro Collocho	Intrusive	Dacitic andesite	//	TS, WR, KA
478	A00TM126	36° 55' 05.1'	70° 25' 20.1'	Cerro Collocho	Cerro Collocho	Intrusive	Dacite	Argillization / Sericite / Silicification, argillization / Montmorillonite / Pyrite dissemination	XR
479	A00TM128	37° 52' 16.4'	70° 27' 06.4'	Cerro de los Bueyes	Cerro los Potreritos	JK, Grupo Mendoza	Shale	Silicification, argillization / Montmorillonite / Pyrite dissemination	XR, GC
480	A00TM129	37° 52' 15.7'	70° 27' 03.9'	Cerro de los Bueyes	Cerro los Potreritos	JK, Grupo Mendoza	Sandstone	Silicification, argillization / Montmorillonite / Pyrite dissemination	XR, GC
481	A00TM130	37° 20' 38.1'	70° 22' 22.1'	Cerro Mayal	Cerro Mayal		Altered rock (gossan)	Silicification // Pyrite-limonite	GC
482	A00TM131	37° 20' 40.4'	70° 22' 21.3'	Cerro Mayal	Cerro Mayal	JK, Grupo Mendoza	Sandstone	Argillization // Silicification, argillization / Sericite / Pyrite, limonite, malachite	XR
483	A00TM132	37° 20' 34.0'	70° 22' 26.4'	Cerro Mayal	Cerro Mayal	Intrusive	Andesite		XR, GC
484	A00TM133	37° 20' 34.0'	70° 22' 26.4'	Cerro Mayal	Cerro Mayal	Intrusive	Andesite	Argillization / Sericite /	PT
485	A00TM134	37° 19' 55.5'	70° 23' 46.4'	Cerro Mayal	Cerro Mayal		Altered rock (gossan)	// Limonite, calcite	GC
486	A00TM135	37° 19' 55.5'	70° 23' 46.4'	Cerro Mayal	Cerro Mayal	Intrusive	Andesite	Argillization / Kaolinite, montmorillonite /	XR
487	A00TM136	37° 20' 13.4'	70° 22' 51.9'	Cerro Mayal	Cerro Mayal	JK, Grupo Mendoza	Tuff breccia	Propylitic / Montmorillonite / Limonite	XR, GC
488	A00TM137	37° 20' 17.5'	70° 22' 49.6'	Cerro Mayal	Cerro Mayal	Intrusive	Andesite	Argillization / Sericite / Argillization / Montmorillonite, sericite / Marcasite dissemination	XR
489	A00TM138	37° 43' 07.4'	70° 25' 11.1'	Cerro de los Bueyes	Cerro de los Bueyes	JK, Grupo Mendoza	Altered rock		PT, XR, GC
490	A00TM139	37° 43' 07.4'	70° 25' 11.1'	Cerro de los Bueyes	Cerro de los Bueyes		Altered rock(gossan)	// Limonite	GC
491	A00TM140	37° 43' 07.4'	70° 25' 11.1'	Cerro de los Bueyes	Cerro de los Bueyes	JK, Grupo Mendoza	Sandstone	Silicification, argillization / Sericite, montmorillonite /	XR
492	A00TM141	37° 43' 00.2'	70° 24' 13.8'	Cerro de los Bueyes	Cerro de los Bueyes	JK, Grupo Mendoza	Shale	Silicification // Marcasite dissemination	XR, GC
493	A00TM142	37° 43' 00.2'	70° 24' 13.8'	Cerro de los Bueyes	Cerro de los Bueyes	JK, Grupo Mendoza	Sandstone	Silicification // Marcasite dissemination and vein	PT, XR, GC
494	A00TM144	37° 59' 29.6'	70° 33' 19.3'	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous shale	Argillization / Sericite /	XR
495	A00TM145	37° 59' 29.6'	70° 33' 19.3'	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous shale	// Limonite, Cu oxide mineral	GC

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
496	A00TM146	37° 59' 55.5"	70° 33' 35.7"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Argillization / Montmorillonite / Limonite	XR
497	A00TM147	37° 59' 55.5"	70° 33' 35.7"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Silicification // Limonite	GC
498	A00TM148	37° 59' 56.6"	70° 33' 35.4"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Silicification, hydrothermal breccia // Limonite	GC
499	A00TM149	37° 59' 48.7"	70° 33' 05.6"	Campana Mahuida	Pino Andino		Barite-Cu oxide vein	// Barite, azurite, malachite	OA
500	A00TM151	38° 12' 35.7"	70° 32' 12.4"	Campana Mahuida	Campana Mahuida	Intrusive	Diorite	// Argillization / Sericite / Malachite, pyrite dissemination	TS, KA
501	A00TM154	37° 59' 52.1"	70° 33' 39.4"	Campana Mahuida	Pino Andino	Intrusive	Granodiorite		XR, GC
502	A00TM155	37° 59' 46.0"	70° 33' 07.2"	Campana Mahuida	Pino Andino	Intrusive	Granodiorite	Argillization / Sericite /	XR
503	A00TM156	37° 59' 46.1"	70° 33' 04.9"	Campana Mahuida	Pino Andino		Limonite-quartz-barite vein	// Limonite, Cu oxide mineral	GC
504	A00TM157	37° 59' 28.3"	70° 33' 07.9"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Argillization, silicification / Sericite / Limonite	XR, GC
505	A00TM158	37° 59' 28.3"	70° 33' 07.9"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Silicification // Limonite	GC
506	A00TM159	37° 59' 31.9"	70° 32' 48.9"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Argillization / Sericite /	XR
507	A00TM160	37° 59' 31.9"	70° 32' 48.9"	Campana Mahuida	Pino Andino		Limonite-silicification vein	Silicification // Limonite	GC
508	A00TM161	37° 59' 28.7"	70° 32' 41.5"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Silicification // Limonite	GC
509	A00TM162	37° 59' 19.1"	70° 32' 14.2"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Silicification // Limonite	GC
510	A00TM163	38° 00' 21.1"	70° 33' 29.6"	Campana Mahuida	Pino Andino	Intrusive	Porphyritic diorite	//	TS
511	A00TM164	37° 59' 54.0"	70° 32' 59.2"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Silicification // Limonite	GC
512	A00TM165	37° 59' 46.0"	70° 32' 58.9"	Campana Mahuida	Pino Andino	JK, Grupo Mendoza	Tuffaceous sandstone	Silicification // Limonite	GC
513	A00TM166	37° 59' 41.7"	70° 32' 58.7"	Campana Mahuida	Pino Andino		Gossan	Silicification // Limonite	GC
514	A00TM167	37° 59' 45.3"	70° 32' 50.9"	Campana Mahuida	Pino Andino		Gossan	Silicification // Limonite, barite	GC
515	A00TM168	37° 59' 44.2"	70° 32' 43.7"	Campana Mahuida	Pino Andino		Gossan	Silicification // Limonite	GC
516	A00TM169	37° 59' 41.4"	70° 32' 35.5"	Campana Mahuida	Pino Andino		Gossan	// Limonite	GC
517	A00TM170	37° 59' 41.6"	70° 32' 35.3"	Campana Mahuida	Pino Andino		Gossan	Silicification // Limonite	GC
518	A00TM171	37° 59' 54.2"	70° 32' 59.0"	Campana Mahuida	Pino Andino		Gossan	Silicification // Limonite	GC
519	A00TM172	37° 59' 54.6"	70° 33' 41.3"	Campana Mahuida	Pino Andino	Intrusive	Porphyritic granodiorite	Argillization // Pyrite, limonite	XR, GC
520	A00TM173	37° 59' 51.2"	70° 33' 33.8"	Campana Mahuida	Pino Andino	Intrusive	Porphyritic granodiorite	//	TS
521	A00TM174	37° 59' 52.0"	70° 33' 37.9"	Campana Mahuida	Pino Andino	Intrusive	Porphyritic granodiorite	// Malachite, limonite	XR, GC
522	A00RM101	39° 01' 49.4"	70° 32' 06.4"	Nireco	Nireco NE	PTR, Fm. Choiyoi	Rhyolite	Argillization, silicification // Limonite	XR, GC
523	A00RM102	39° 00' 51.7"	70° 31' 27.2"	Nireco	Nireco NE	PTR, Fm. Choiyoi	Rhyolite	Argillization // Limonite	XR
524	A00RM103	39° 00' 48.8"	70° 31' 25.2"	Nireco	Nireco	PTR, Fm. Choiyoi	Rhyolite	Weak silicification // Limonite	TS
525	A00RM104	39° 00' 55.2"	70° 31' 07.1"	Nireco	Nireco	PTR, Fm. Choiyoi	Laminated tuff	Silicification, argillization //	XR
526	A00RM105	39° 01' 00.2"	70° 31' 09.1"	Nireco	Nireco	PTR, Fm. Choiyoi	Conglomerate, crystal tuff	Argillization, silicification //	
527	A00RM106	39° 01' 20.7"	70° 31' 41.5"	Nireco	Nireco	PTR, Fm. Choiyoi	Rhyolite	Argillization, silicification // Limonite	XR, GC
528	A00RM107	39° 12' 47.1"	70° 36' 25.5"	La Voluntad	La Voluntad	CPg, La Voluntad complex	Quartz porphyry	Phyllic // Limonite, malachite	

Appendix-2 Samples taken for the survey.

17/18

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
529	A00RM108	39° 12' 39.3'	70° 36' 26.0'	La Voluntad	La Voluntad	CPg, La Voluntad complex	Quartz porphyry	Silicification //	TS
530	A00RM109	39° 07' 29.5'	70° 37' 46.8'	La Voluntad	La Voluntad North	Intrusive	Aplite, granite	Tourmalinization //	XR
531	A00RM110	39° 07' 46.8'	70° 38' 10.8'	La Voluntad	La Voluntad North	Intrusive	Aplite	// Limonite, pyrite	XR
532	A00RM111	39° 08' 29.4'	70° 34' 46.8'	La Voluntad	La Voluntad North	PTR, Fm. Choiyoi	Tuff	Silicification, argillization // Limonite network	XR, GC
533	A00RM112	39° 08' 31.6'	70° 34' 39.6'	La Voluntad	La Voluntad North	PTR, Fm. Choiyoi	Tuff	Silicification, argillization // Limonite	XR
534	A00RM113	39° 08' 33.7'	70° 34' 46.4'	La Voluntad	La Voluntad North	PTR, Fm. Choiyoi	Tuff with quartz vein	Silicification, argillization // Limonite	XR, GC
535	A00RM114	39° 08' 33.7'	70° 34' 46.4'	La Voluntad	La Voluntad North	PTR, Fm. Choiyoi	Hydrothermal breccia (float)	Silicification, argillization // Limonite matrix	GC
536	A00RM115	39° 08' 32.4'	70° 34' 49.6'	La Voluntad	La Voluntad North	PTR, Fm. Choiyoi	Brecciated vein (float)	Silicification, argillization // Limonite	XR, GC
537	A00RM116	38° 52' 08.9'	70° 47' 45.9'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Tuff breccia	Silicification, argillization, leaching // Limonite	XR, GC
538	A00RM117	38° 52' 09.0'	70° 47' 47.7'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Alt.rock with quartz veinlet	Silicification, argillization // Limonite	XR, GC
539	A00RM118	38° 52' 32.6'	70° 48' 09.7'	Palau Mahuida	Cerro Cochico	PTR, Fm. Choiyoi	Altered rock	Silicification, argillization // Limonite	XR
540	A00RM119	38° 48' 31.5'	70° 39' 03.7'	Palau Mahuida	Palau Mahuida	PC2, Fm. Colohuincul eq.	Quartz vein	//	GC
541	A00RM120	38° 46' 42.8'	70° 40' 29.1'	Palau Mahuida	Palau Mahuida (ZA007)	PTR, Fm. Choiyoi	Tuff breccia	Argillization, silicification // Limonite, pyrite	XR
542	A00RM121	38° 46' 42.7'	70° 40' 28.3'	Palau Mahuida	Palau Mahuida (ZA007)	PTR, Fm. Choiyoi	Jarosite network	// Silicification, argillization, leaching // Limonite, jarosite, pyrite	XR, GC
543	A00RM122	38° 46' 38.5'	70° 40' 25.3'	Palau Mahuida	Palau Mahuida (ZA007)	PTR, Fm. Choiyoi	Altered rock	Silicification, argillization, leaching // Limonite, jarosite, pyrite	GC
544	A00RM123	38° 46' 38.2'	70° 40' 26.0'	Palau Mahuida	Palau Mahuida (ZA007)	PTR, Fm. Choiyoi	Altered rock with quartz veinlet	Silicification, argillization, leaching // Limonite, Silicification, argillization, leaching // Limonite, jarosite	GC
545	A00RM124	38° 46' 26.6'	70° 40' 22.0'	Palau Mahuida	Palau Mahuida (ZA007)	PTR, Fm. Choiyoi	Altered rock	Argillization, silicification // Limonite, jarosite	XR
546	A00RM125	38° 47' 07.8'	70° 40' 44.0'	Palau Mahuida	Palau Mahuida	PTR, Fm. Choiyoi	Altered rock	Argillization, silicification // Limonite, jarosite	XR
547	A00RM126	38° 47' 07.9'	70° 41' 09.8'	Palau Mahuida	Palau Mahuida	PTR, Fm. Choiyoi	Altered rock with opal vein	Silicification, argillization //	XR, GC
548	A00RM127	38° 48' 04.2'	70° 40' 07.0'	Palau Mahuida	Palau Mahuida	PTR, Fm. Choiyoi	Altered rock	Silicification, argillization // Limonite, jarosite	XR
549	A00RM128	41° 32' 17.5'	71° 08' 50.4'	Rio Foyel	Cerro Carrera east		Oxide Cu ore	// Chrysocolla, galena, U mineral	PT, OA
550	A00RM129	41° 32' 17.5'	71° 08' 50.4'	Rio Foyel	Cerro Carrera east	Intrusive	Andesitic dyke (wall rock of RM128)	Propylitic (chlorite, calcite) //	TS
551	A00RM130	41° 31' 55.6'	71° 09' 12.6'	Rio Foyel	Cerro Carrera east	Fluvial	Earthy limonite mass	// Limonite	GC
552	A00RM131	41° 31' 39.7'	71° 08' 07.5'	Rio Foyel	Cerro Carrera east		Granitoid (float)	Argillization, silicification // Limonite	GC
553	A00RM132	41° 31' 38.5'	71° 09' 07.0'	Rio Foyel	Cerro Carrera east	Tm4, Fm. Nirihuau	Oxide Mn ore (sedimentary)	Argillization // wad	OA
554	A00RM133	41° 30' 17.2'	71° 12' 08.3'	Rio Foyel	Cerro Carrera east	Kg, Fm. Mamil	Qz vein	// Limonite	GC
555	A00RM134	41° 30' 17.2'	71° 12' 08.3'	Rio Foyel	Cerro Carrera east	Kg, Fm. Mamil	Granitoid (wall rock of RM133)	Weak alteration // Limonite	XR
556	A00RM135	41° 30' 17.7'	71° 12' 04.6'	Rio Foyel	Cerro Carrera east	Kg, Fm. Mamil	Brecciated white alt. Rock	Silicification, argillization // Limonite	XR
557	A00RM136	41° 30' 19.2'	71° 11' 54.7'	Rio Foyel	Cerro Carrera east	Ta1, Fm. Ventana	Rhyolite	Argillization, silicification // Limonite	XR
558	A00RM137	41° 30' 30.4'	71° 11' 50.5'	Rio Foyel	Cerro Carrera east	Ta1, Fm. Ventana	Rhyolite	Weak silicification // Limonite	XR
559	A00RM138	41° 30' 29.9'	71° 11' 51.3'	Rio Foyel	Cerro Carrera east	Kg, Fm. Mamil	Granitoid	Argillization, silicification // Limonite	XR
560	A00RM139	41° 30' 26.7'	71° 11' 53.9'	Rio Foyel	Cerro Carrera east	Ta1, Fm. Ventana	Rhyolite	Silicification, argillization // Limonite	GC
561	A00RM140	41° 35' 34.9'	71° 21' 10.4'	Rio Foyel	Rio Foyel		Altered volcanic rock (float)	Silicification, argillization // Limonite	GC

Appendix-2 Samples taken for the survey.

No.	Sample No.	Latitude(S)	Longitude(W)	District	Locality	Geological unit, Stratigraphy	Rock type	Alteration / POSAM / Mineralization	Analysis type
562	A00RM141	41° 34' 21.3"	71° 21' 28.2"	Rio Foyel	Rio Foyel		Altered granitoid (float)	Silicification // Limonite, pyrite	PT, GC
563	A00RM142	41° 37' 34.5"	71° 21' 55.4"	Rio Foyel	Rio Foyel		Altered rock (float)	Silicification // Limonite	GC
564	A00RM143	41° 37' 34.5"	71° 21' 55.4"	Rio Foyel	Rio Foyel		Altered volcanic rock (float)	Silicification // Pyrite, limonite	GC
565	A00RM144	41° 37' 34.5"	71° 21' 55.4"	Rio Foyel	Rio Foyel		Altered volcanic rock (float)	Argillization, silicification // Limonite	GC
566	A00RM145	41° 37' 34.5"	71° 21' 55.4"	Rio Foyel	Rio Foyel		Altered volcanic rock (float)	Silicification // Pyrite, limonite	GC
567	A00RM146	41° 37' 34.5"	71° 21' 55.4"	Rio Foyel	Rio Foyel		Altered volcanic rock (float)	Silicification, argillization // Pyrite, limonite	GC
568	A00PNK101	41° 31' 39.7"	71° 08' 07.6"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
569	A00PNK102	41° 31' 38.5"	71° 09' 07.0"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
570	A00PNK103	41° 31' 42.8"	71° 09' 04.2"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
571	A00PNK104	41° 29' 57.0"	71° 11' 23.6"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
572	A00PNK105	41° 30' 15.4"	71° 08' 13.3"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
573	A00PNK106	41° 30' 16.1"	71° 08' 12.4"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
574	A00PNK107	41° 30' 42.5"	71° 08' 38.3"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
575	A00PNK108	41° 31' 30.1"	71° 09' 00.0"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
576	A00PNK109	41° 31' 53.2"	71° 09' 22.0"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
577	A00PNK110	41° 32' 38.7"	71° 09' 40.4"	Rio Foyel	Cerro Carrera east		Panning concentrated sediments		PCC
578	A00PNK111	41° 34' 21.2"	71° 21' 28.5"	Rio Foyel	Rio Foyel West		Panning concentrated sediments		PCC
579	A00PNK112	41° 37' 34.5"	71° 21' 55.4"	Rio Foyel	Rio Foyel West		Panning concentrated sediments		PCC

Abbreviations

Analysis type

TS : Observation results of thin sections → Appendix-3
PT : Observation results of polished thin sections → Appendix-4
XR : Powdery X-ray diffraction results → Appendix-5
GC : Bulk chemical analysis results for the geochemical survey : 27elements+Au (codeT27+494) → Appendix-6
PC : Bulk chemical analysis results including PGM elements for the geochemical survey : 27elements+PGE (codeT27+G15) → Appendix-7
WR : Bulk chemical analysis results for the petrochemical study : whole rock analyses major & trace elements (codeA413+A390) → Appendix-8
PCC : Chemical analysis results for pan concentrated samples → Appendix-9
OA : Ore grade assay results : 24elements+Au (code A22+999) → Appendix-10
FI : Homogenization temperatures and salinities of fluid inclusions → Appendix-11
DS : Measurement results of sulfur isotope composition → Appendix-12
DO : Measurement results of oxygen isotope composition → Appendix-13
KA : K-Ar radiometric measurement results → Appendix-14

Geological unit, Stratigraphy

Fm. : Formation
Gr. : Group

Mineralizations

qz : quartz
py : pyrite
cp : chalcopyrite
gn : galena
sp : sphalerite
bo : bornite
mo : molybdenite
diss. : dissemination

Appendix-3 Observation results of thin sections

No.	Sample No.	Rock Type	primary minerals													secondary minerals								Note (others)					
			qz	pl	kf	bt	mu	ho	opx	cpx	ol	ga	sp	zi	ap	op	gl	to	qz	chl	ser	iserp	tc		ep	ca	op	saus	cl
1	A00NK014	Muscovite bearing biotite granite	◎	◎	◎	○	△												△					△	△				Coarse grained and heterogeneous
2	A00NK018	Aphyric rhyolite?	△	△											◎		○							△		△			Strongly silicified
3	A00NK025	Biotite hornblende granite(Quartz monzonite or adamellite)	◎	◎	◎	○		○					△	△				△					△		△				
4	A00NK048	Rhyolitic tuff	◎	○	△	△								△	◎		○						△	△	△	△			Air fall deposit, lithic of rhyolite(△)
5	A00HH013	Granite porphyry	◎	○	△	△									△		○	△						△					Dyke
6	A00HH060	Aphyric basalt	○	◎	△				◎					△	◎	△	○	△											Small dyke or sill
7	A00MZ013	Hornblende dacite	◎	◎				◎						△	△		○	○					△	△					Dyke?
8	A00MZ015	Biotite hornblende granodiorite porphyry	◎	◎	△	○	○						△	△	△								△						Dyke or small intrusion
9	A00MZ018	Hornblende granodiorite porphyry	◎	◎	△	○	○						△	△	○								△						Dyke or small intrusion
10	A00MZ022	Biotite granite(quartz monzonite or adamellite)	◎	◎	◎	○							△	△	△	△	△	◎	△					○	◎				
11	A00MZ032	Biotite hornblende granodiorite	◎	◎	○	○		◎					△	△	△	○	△	○					○		◎				
12	A00MZ044	Olivine augite basalt	○	◎	△				◎	△				△	○	△	△	◎					◎					◎	Dyke or sill
13	A00MZ065	Basaltic lapilli tuff		○														◎	◎	◎				○			○	lithic of basalt (◎)	
14	A00TM006	Granophyre	◎	○	◎	△								△										△	△				Dyke
15	A00TM009	Biotite hornblende granodiorite porphyry	◎	◎	○	○		◎					△	△	○			○											Dyke or small intrusion
16	A00TM017	Porphyritic andesite	◎	◎																			◎				◎		Dyke, strong metamorphic replacement
17	A00TM018	Hornblende biotite granite (quartz monzonite or adamellite)	◎	◎	◎	◎	○						△	△	△		○	◎					○	○	◎				
18	A00TM019	Hornblende andesite	◎	◎				○										◎					◎	△			◎		Highly porphyritic, 30~40% phenocryst
19	A00TM020	Hyperthene biotite hornblende tonalite(quartz diorite)	◎	◎	○	○		◎					△	△	○			○											
20	A00TM023	Olivine basalt		◎	△				◎	○					◎														
21	A00TM030	Hornblende biotite tonalite(quartz diorite)	◎	◎	△	○	○						△	△	○			◎					△		◎				
22	A00RM013	Hornblende biotite tonalite(quartz diorite)	◎	◎	○	◎		◎					△	△	△	△		◎					○	△	◎				
23	A00RM025	Porphyritic andesite		◎					△						△	○	○	◎						○	◎	◎			
24	A00RM031	Thermally metamorphosed sandstone	◎			◎																							
25	A00RM032	Biotite hornblende dacite	◎	◎	△	○	○								○		◎	◎					◎	◎					Dyke or small intrusion
26	A00RM038	Granite porphyry	◎	◎																				△					Dyke, strong silicification
27	A00RM048	Hornblende andesite		◎				◎										◎						◎	◎				
28	A00RM049	Aphyric rhyolite?														◎		◎											strong silicification
29	A00RM060	Lapilli tuff	△														◎	○											strong silicification, lithic of silicified rock(◎)
30	A00NK104	Conglomerate (coase sandstone)	◎	◎	△	△											○	△								○			Andesite fragments (◎)
31	A00NK105	Quartz porphyry	◎	△													◎		△										Highly altered
32	A00NK109	Biotite granodiorite	◎	◎	○	○								△				◎					○	△					allanite(•)
33	A00NK110	Muscovite tourmaline aplite	◎	○	◎		△																						
34	A00NK137	Porphyritic andesite	◎	◎											○	◎	◎	○	○										
35	A00NK144	Dacitic welded tuff	○	○											△	◎													Andesite fragments (◎)
36	A00NK147	Augite bearing hornblende biotite granodiorite	◎	◎	○	○		○	△					△	○			◎										◎	
37	A00NK148	Hornblende syenite porphyry	◎	△	◎		△	△						△			◎												
38	A00NK151	Hornblende biotite quartz monzonite	◎	◎	◎	○	○								○		○	◎	○					○					

Appendix-3 Observation results of thin sections

No.	Sample No.	Rock Type	primary minerals													secondary minerals										Note (others)									
			qz	pl	kf	bt	mu	ho	opx	cpx	ol	ga	sp	zi	ap	op	gl	to	qz	chl	seri	serp	tc	ep	ca		op	saus	cly	amph	smec				
39	A00HH102	Altered rock (Granitic plutonic ?)	⊙	⊙		Δ										Δ		⊙	○	⊙															
40	A00HH105	Tourmaline quartz-sericite rock	⊙													Δ	⊙		⊙																
41	A00HH128	Quartz porphyry	○	⊙												Δ		⊙	○	⊙															
42	A00HH132	Quartz porphyry	⊙	⊙												○		⊙	⊙				⊙												
43	A00MZ103	Granodiorite porphyry	⊙	⊙	○	Δ										Δ		⊙	○				○												
44	A00MZ107	Muscovite biotite granodiorite porphyry	⊙	⊙	○	○	Δ									Δ		⊙	○	⊙															
45	A00MZ114	Biotite granodiorite	⊙	⊙	○	Δ									Δ		○	⊙	⊙				○	○											
46	A00MZ130	Augite bearing basalt (aphyric basalt)		⊙							⊙					⊙	○	○	⊙	○			○												
47	A00MZ137	Biotite hornblende quartz gabbro	Δ	⊙	Δ		⊙									○		⊙	○				○												
48	A00MZ139	Augite and olivine bearing basalt (aphyric basalt)		⊙							⊙	Δ				⊙		○					○												
49	A00TM106	Hypersthene bearing hornblende andesite	○	⊙	○				Δ	Δ						○	⊙	○	○														○		
50	A00TM110	Biotite hornblende granophyre	⊙	⊙	○	Δ		○								Δ	○	⊙	⊙				⊙												
51	A00TM125	Biotite bearing hypersthene hornblende dacite	⊙	⊙		Δ		⊙	○							○	⊙	○	○				○												
52	A00TM151	Augite biotite hornblende quartz diorite	○	⊙	Δ	Δ		○	Δ	○						○																			very fresh
53	A00TM163	Hornblende dacite	⊙	⊙			○									○		⊙	○	○			⊙												
54	A00TM173	Hornblende dacite	⊙	○			○									⊙		⊙	⊙	○			⊙												
55	A00RM103	Hornblende rhyolite	⊙	○			Δ									⊙		⊙	○																
56	A00RM108	Biotite granophyre	⊙	○	⊙		○																												fresh
57	A00RM129	Olivine basalt		⊙							○					Δ	⊙	○					⊙				⊙								

Legend: ⊙, abundant; ○, common; Δ, minor; ·, rare

qz:quartz, pl:plagioclase, kfk-feldspar, bt:biotite, mu:muscovite, ho:hornblende, opx:ortho pyroxene, cpx:clino pyroxene, ol:olivine, ga:garnet, sp:sphene, zi:zircon, ap:apatite, op:opaque minerals (mainly iron oxide), gl:glass, to:tourmaline
chl:chlorite, seri:sericite, serp:serpentine, tc:talca, ep:epidote, ca:carbonate mineral (mainly calcite), saus:saussurite, cly:clay minerals, amph:amphibole, smec:smectite

Appendix-4 Observation results of polished-thin sections.

No.	Sample No.	Rock Type	primary minerals													secondary minerals								ore minerals					Note (others)			
			qz	pl	kf	bt	mu	ho	ol	opx	cpx	ol	ga	sp	zi	ap	op	gl	to	qz	chl	seri	serp	tc	ep	ca	op	cly		smec	py	cp
1	A00NK019	Porphyritic andesite(dacite)	⊙	⊙	△													⊙						○	⊙			○	△	⊙	⊙	gal=sph>py>cp
2	A00NK039-1	Silicified rock																⊙						○	△		△					py>mt
3	A00NK041	Olivine dolerite		⊙	△	△				⊙	○				△									○			△	·				py>cp
4	A00HH002	Carbonate mineral-quartz-ore mineral rock																⊙						△	⊙		⊙	△	○	⊙	py>gal>sph>cp	
5	A00HH024	Porphyritic andesite(dacite)	⊙	⊙														⊙						○	⊙		⊙	△	○	⊙	py>gal>sph>cp	
6	A00HH063	Chlorite-ore minerals-quartz rock																⊙	⊙					⊙		△		⊙	○		sph>gal>py	
7	A00MZ016	Carbonate mineral-ore minerals-quartz rock																○						○	○		⊙	△		○	py>gal>cp	
8	A00MZ030	Ore minerals-quartz rock																⊙						△	⊙		○	△	⊙	○	sph>py>gal>cp	
9	A00MZ038	Andestic lapilli tuff	△	⊙											△			⊙	⊙				⊙	⊙	·						lithic of andesite(⊙)	
10	A00MZ042	Ore minerals-quartz rock																⊙						⊙		△		⊙	○		sph>gal>py	
11	A00RM029	Nearly aphyric andesite	⊙	⊙														⊙						○	⊙		△		⊙	⊙	sph=gal>py	
12	A00RM033	Biotite hornblende dacite	⊙	⊙		△		○							△			○	△					⊙	⊙		○	△			Dyke or small intrusion, similar to A00RM032	
13	A00RM040	Ore minerals-quartz rock																⊙						△	△	⊙		·	○	△	cp>sph	
14	A00RM042	Pebble conglomerate Tonalite	⊙	⊙	△	△								△			○	⊙	⊙					·							· intensely altered, clast of tonalite(⊙) Pebble in conglomerate	
15	A00RM057	Olivine dolerite		⊙	△	△			○	○					△				○	○				○			·		△		sill	
16	A00RM058	Inverted pigeonite/augite dolerite	△	⊙	△	△			⊙									△						△					△		sill	
17	A00NK132	Hornblende dacite (?)		△				△										⊙						⊙		○						
18	A00HH110	Quartz porphyry (?)	△	△	△	△	△											⊙	⊙													
19	A00HH116	Opaque mineral-tourmaline-quartz rock														⊙	⊙									·			△			
20	A00HH121	Opaque mineral-quartz-rock (Quartz vein)																⊙	○							⊙	△					
21	A00HH126	Andesite	△	△														⊙						⊙		△						
22	A00MZ108	Biotite granodiorite porphyry	⊙	⊙	○	○												⊙	△					○					△			
23	A00MZ125	Quartz-opaque mineral-rock																⊙						△		○						
24	A00TM133	Hornblende andesite	△	⊙				○								⊙	⊙	⊙					⊙		·							
25	A00TM138	Tuffaceous sandstone ? (altered rock)	⊙	△												⊙	⊙		△					⊙								
26	A00TM142	Fine sandstone	⊙	△																					⊙		○	·				
27	A00RM128	Andesite	△	○												⊙	⊙	○					⊙								Bornite(⊙), Chalcocite(⊙)	
28	A00RM141	Biotite granitic rock	⊙	⊙	○	○												⊙	○	⊙						○	·					

Legend: ⊙, abundant; ○, common; △, minor; · rare

qz:quartz, pl:plagioclase, kf:k-feldspar, bt:biotite, mu:muscovite, ho:hornblende, ol:olivine, opx:ortho pyroxene, cpx:clino pyroxene, ga:garnet, sp:sphene, zi:zircon, ap:apatite, op:opaque mineral, gl:glass, to:tourmaline
 chl:chlorite, seri:sericite, serp:serpentine, tc:talc, ep:epidote, ca:carbonate mineral (mainly calcite), cly:clay minerals, smec:smectite
 py:pyrite, cp:chalcopyrite, sph:sphalerite, gal:galena, mt:magnetite

Appendix-5 Powdery X-ray diffraction results.

No.	Sample	Rock	Silicas			Silicates										Carbonates		Sulfides		Sulfates		Others	Note					
			Quartz	Cristobalite	Tridymite	Plagioclase	Albite	K-feldspar	Hornblende	Biotite	Sericite	Pyrophyllite	Chlorite	Chlorite/Montmorillonite	Montmorillonite	Kaoline	Alunite	Laumontite	Calcite	Dolomite	Pyrite	Galena		Sphalerite	Gypsum	Barite	Jarosite	Diaspore
181	A00RM116	Tuff breccia	33			12	4.3		< 1									> 1										
182	A00RM117	Alt.rock with quartz veinlet	41			13	2																					
183	A00RM118	Altered rock	33				12																					
184	A00RM120	Tuff breccia	58				3.3							1														
185	A00RM121	Jarosite network																							11			
186	A00RM124	Altered rock	18			8.3	7.7		< 1																< 1			
187	A00RM125	Altered rock	31				6.7	5					1.3												< 1			
188	A00RM126	Altered rock with opal vein	66																									
189	A00RM127	Altered rock	10				27	11	< 1				0.7												< 1			
190	A00RM134	Granitoid (wall rock of RM133)	40				3.3		3.3		4																	
191	A00RM135	Brecciated white alt. Rock	37				10		1																			
192	A00RM136	Rhyolite	37				11	5.3	1																			
193	A00RM137	Rhyolite	34				11	4.3	0.7																			
194	A00RM138	Granitoid	35				22	12	2																			

numerical data is quartz index which is relative strength against the standard quartz sample.

Appendix-6 Bulk chemical analysis results for the geochemical survey.

No.	Sample	Rock	Au (g/t)	As (ppm)	Sb (ppm)	Hg (ppb)	Ag (g/t)	Al (%)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	K (%)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (ppm)	Pb (ppm)	Sr (ppm)	Ti (%)	V (ppm)	W (ppm)	Zn (ppm)
1	A00NK001	Andesite	0.035	6	4.4	50	<0.2	8.9	630	0.5	<2	0.08	<0.5	3	22	270	4.47	3.19	0.38	20	8	0.4	6	120	14	32	0.08	106	30	50
2	A00NK002	Qz vein	<0.005	<1	0.2	<10	<0.2	0.54	130	<0.5	<2	0.03	<0.5	1	13	6	0.25	0.09	0.04	665	1	0.03	1	50	2	11	0.01	9	<10	18
3	A00NK003	Silicified rock	<0.005	<1	0.2	<10	<0.2	0.54	70	<0.5	<2	0.01	<0.5	<1	33	1	0.06	0.15	0.01	10	8	0.03	<1	10	2	6	0.08	3	<10	8
4	A00NK007	Iron ore	<0.005	27	0.8	60	<0.2	1.51	200	<0.5	<2	0.37	15	26	11	77	>25.0	0.26	0.44	3350	1	0.23	25	460	26	27	0.04	51	<10	1670
5	A00NK010	Iron ore	0.01	42	0.4	30	<0.2	0.79	50	<0.5	<2	0.19	<0.5	<1	9	20	>25.0	0.08	0.09	150	15	0.05	7	760	6	21	0.01	88	<10	94
6	A00NK015	Qz vein	<0.005	6	0.2	10	0.2	0.27	10	<0.5	<2	0.02	<0.5	<1	18	11	0.27	0.12	0.01	15	<1	0.03	<1	40	2	7	<0.01	3	<10	12
7	A00NK016	Dacite	<0.005	12	1.4	<10	<0.2	1.45	70	<0.5	2	0.03	<0.5	<1	16	18	0.96	0.64	0.04	60	48	0.04	<1	80	6	15	0.02	7	<10	14
8	A00NK017	Dacite	<0.005	10	0.2	<10	<0.2	5.27	640	0.5	<2	0.03	<0.5	1	9	5	0.26	6	0.01	15	<1	0.18	<1	80	8	54	0.04	3	<10	8
9	A00NK020	Qz Vein	0.075	<1	<0.2	10	1.4	0.82	70	<0.5	<2	0.28	2.5	5	17	83	0.4	0.26	0.12	1495	<1	0.04	3	50	508	31	0.01	16	<10	224
10	A00NK021	Granite	<0.005	13	0.6	<10	0.2	7.53	70	0.5	<2	4.52	<0.5	19	13	3	4.63	0.42	1.48	540	1	2.21	6	850	16	364	0.36	150	<10	40
11	A00NK023	Tourmaline breccia	<0.005	5	0.2	<10	0.2	8.32	210	1.5	<2	1.35	<0.5	4	9	21	1.3	0.98	0.38	280	<1	3.93	<1	570	20	246	0.16	13	<10	44
12	A00NK027	Qz vein	<0.005	8	0.8	<10	<0.2	0.15	130	0.5	<2	0.04	<0.5	1	18	5	0.36	0.07	0.01	55	709	0.04	<1	30	2	21	<0.01	8	<10	8
13	A00NK028	Qz vein	<0.005	2	<0.2	<10	<0.2	0.44	30	0.5	<2	0.04	<0.5	<1	20	<1	0.2	0.18	0.03	40	138	0.03	3	60	2	9	<0.01	9	<10	8
14	A00NK029	Rhyolite	<0.005	<1	<0.2	<10	<0.2	<0.01	550	1.5	<2	4.89	2	8	15	364	9.59	3.51	0.8	<5	3	<0.01	9	730	<2	679	0.36	153	10	32
15	A00NK032	Flaky qz	<0.005	22	1.2	<10	<0.2	2	50	1.5	<2	0.04	<0.5	2	12	37	2.99	0.77	0.16	145	54	0.06	<1	250	2	47	0.01	50	<10	8
16	A00NK033	Qz vein	<0.005	<1	<0.2	<10	<0.2	0.61	10	0.5	<2	0.02	<0.5	<1	15	<1	0.06	0.17	0.03	15	194	0.19	<1	<10	<2	15	<0.01	1	<10	4
17	A00NK034	Granodiorite porphyry	0.015	<1	0.2	<10	0.8	8.02	490	1.5	<2	0.66	<0.5	8	15	1635	1.46	2.86	0.34	300	13	2.32	10	560	16	187	0.09	46	<10	28
18	A00NK035	Qz vein	<0.005	1	<0.2	<10	2	0.17	30	<0.5	<2	0.01	<0.5	<1	10	15	0.09	0.1	<0.01	5	1	0.03	<1	10	<2	9	<0.01	1	<10	2
19	A00NK036	Qz vein	<0.005	18	0.2	<10	1.2	0.15	10	<0.5	<2	0.01	<0.5	1	18	115	2.86	0.04	<0.01	10	41	0.03	<1	80	2	15	<0.01	24	10	2
20	A00NK040	Andesite? (Float)	<0.005	4	<0.2	<10	0.2	9.36	150	<0.5	<2	0.44	<0.5	19	124	149	6.91	0.67	3.45	805	4	4.54	32	620	10	72	0.13	220	<10	74
21	A00NK045	Andesite	<0.005	<1	<0.2	30	<0.2	0.09	3490	<0.5	<2	<0.01	<0.5	1	41	4	0.06	0.03	0.01	5	<1	<0.01	<1	30	<2	19	0.48	14	<10	2
22	A00NK047	Andesite	<0.005	3	<0.2	20	<0.2	0.24	70	<0.5	<2	0.01	<0.5	1	22	5	0.05	0.04	0.01	<5	<1	<0.01	<1	10	2	14	0.71	3	<10	2
23	A00HH004	Altered rock	0.01	13	<0.2	10	0.2	5.87	450	1	<2	0.01	<0.5	3	10	38	2.7	2.68	0.3	150	56	0.23	<1	90	10	26	0.09	17	10	22
24	A00HH013	Dacite	0.015	3	0.2	40	0.2	7.02	320	1.5	<2	0.27	<0.5	6	10	239	0.9	2.38	0.39	110	3	3.84	1	130	10	76	0.09	29	<10	16
25	A00HH016	Silicified rock	<0.005	13	0.6	<10	<0.2	6.84	340	0.5	<2	0.49	<0.5	5	15	1	0.46	1.7	0.16	130	<1	2.94	<1	320	16	91	0.15	50	<10	74
26	A00HH019	Silicified rock	<0.005	203	3.4	<10	0.2	6.49	810	0.5	<2	0.03	<0.5	2	8	3	1.51	6.73	0.02	35	<1	0.17	<1	160	10	68	0.15	17	<10	10
27	A00HH028	Altered granite	<0.005	6	<0.2	<10	<0.2	7.68	10	2	<2	4.4	<0.5	3	17	1	0.63	0.29	0.49	215	<1	3.38	1	530	8	101	0.31	58	<10	22
28	A00HH034	Andesite	<0.005	10	<0.2	<10	<0.2	8.34	480	0.5	<2	2.71	<0.5	23	28	1175	5.36	1.33	2.48	1075	<1	3.69	5	1100	2	261	0.67	235	<10	86
29	A00HH037	Granite with py (float)	0.005	7	<0.2	<10	0.2	8.53	440	0.5	<2	3.14	<0.5	20	7	355	2.77	1.09	1.05	285	<1	2.88	<1	890	2	351	0.27	76	<10	22
30	A00HH039	Pyroclastics with py (float)	<0.005	13	<0.2	<10	0.2	9.33	150	1.5	<2	2.56	<0.5	9	20	41	3.25	0.63	0.19	250	<1	5.03	3	670	18	426	0.49	128	<10	38
31	A00HH044	Altered rock	0.59	9	<0.2	<10	2.6	3.49	70	<0.5	8	0.07	<0.5	28	11	594	5.85	1.44	0.18	150	13	0.07	2	320	78	16	0.13	67	70	26
32	A00HH047	Altered rock	<0.005	20	3	340	<0.2	7.8	670	<0.5	<2	0.28	<0.5	6	16	13	2.87	0.63	0.14	95	<1	1.61	<1	990	10	488	0.52	128	<10	16
33	A00HH060	Andesite	<0.005	19	0.8	<10	<0.2	8.02	340	0.5	2	4.93	<0.5	23	3	35	6.44	1.06	2.17	1195	<1	2.67	<1	2830	6	786	0.96	319	<10	82
34	A00MZ001	Rhyolite	0.02	23	1	190	0.2	6.56	450	0.5	<2	0.34	<0.5	2	9	74	3.48	2.87	0.49	35	1	0.18	<1	360	4	31	0.12	88	20	2
35	A00MZ002	Volcanic rock	0.01	35	0.4	120	<0.2	10.2	900	1	<2	0.22	<0.5	3	3	117	4.17	3.4	0.34	30	<1	0.39	<1	310	14	160	0.2	182	10	2
36	A00MZ003	Dacite	0.52	82	<0.2	<10	0.8	8.06	360	0.5	<2	3.21	<0.5	5	1	1	1.5	3.4	0.65	4190	<1	0.22	<1	510	52	56	0.13	42	<10	30
37	A00MZ004	Pebble dyke	<0.005	18	0.2	10	0.2	6.68	890	2	<2	0.48	<0.5	4	7	83	1.91	4.33	0.07	235	<1	1.8	<1	150	20	56	0.14	34	<10	30
38	A00MZ005	Volcanic rock	<0.005	119	1.2	30	0.4	6.23	370	0.5	2	3.35	<0.5	7	6	110	4.05	2.16	0.07	630	<1	2.73	<1	1550	10	32	0.95	105	<10	28
39	A00MZ006	Volcanic rock	<0.005	9	<0.2	<10	0.4	7.71	930	1.5	<2	0.04	<0.5	2	3	29	0.82	4.98	0.43	125	<1	0.34	<1	220	32	20	0.05	12	<10	20
40	A00MZ007	Volcanic rock	0.165	44	4.4	4480	71.8	4.25	480	0.5	<2	0.01	<0.5	2	6	23	3.53	2.56	0.15	20	1	0.12	<1	20	88	20	0.03	3	<10	6
41	A00MZ008	Mudstone	<0.005	3	<0.2	<10	0.8	7.03	70	1	6	1.82	<0.5	18	26	362	5.21	0.48	0.49	85	1	3.2	35	1030						

Appendix-6 Bulk chemical analysis results for the geochemical survey.

No.	Sample	Rock	Au (g/t)	As (ppm)	Sb (ppm)	Hg (ppb)	Ag (g/t)	Al (%)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	K (%)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (ppm)	Pb (ppm)	Sr (ppm)	Ti (%)	V (ppm)	W (ppm)	Zn (ppm)
233	A00TM162	Tuffaceous sandstone	0.065	782	41	260	4.8	6.36	480	<0.5	<2	0.13	4.5	9	36	120	16.45	0.9	0.07	215	5	0.15	1	1630	834	333	0.22	287	<10	516
234	A00TM164	Tuffaceous sandstone	0.035	16	2.4	840	1	5.1	3850	<0.5	4	0.05	1	<1	22	20	1.83	1.95	0.11	10	1	0.25	<1	240	132	67	0.08	99	<10	6
235	A00TM165	Tuffaceous sandstone	0.89	1720	>1000	12590	559	2.71	40	<0.5	4	0.07	3.5	3	13	1800	12.4	1.78	0.11	30	36	0.25	<1	1780	37300	469	0.01	114	<10	112
236	A00TM166	Gossan	0.185	1500	33	80	1.4	6.91	920	<0.5	4	0.18	14	2	14	3980	18.15	2.37	0.27	100	6	0.21	1	1680	140	44	0.09	281	<10	456
237	A00TM167	Gossan	0.015	27	20	180	3.2	3.22	1290	<0.5	2	0.05	<0.5	2	15	53	7.85	1.17	0.06	10	3	0.14	<1	460	266	321	0.04	92	<10	4
238	A00TM168	Gossan	0.6	99	18.5	1220	8.4	0.68	850	<0.5	2	0.07	<0.5	2	6	132	7.58	0.15	0.03	45	6	0.04	<1	1110	398	642	0.08	30	<10	18
239	A00TM169	Gossan	0.505	943	86	40	4.2	2.31	50	0.5	<2	0.09	2.5	2	<1	82	>25.0	1.64	0.08	175	16	0.13	<1	2230	3100	210	0.04	172	<10	936
240	A00TM170	Gossan	0.965	1335	86	490	29	1.75	50	1	20	0.14	9	11	1	116	22.3	1	0.06	1530	6	0.18	<1	3010	2370	316	0.02	86	<10	552
241	A00TM171	Gossan	0.02	14	3.6	60	3	5.46	850	<0.5	2	0.04	<0.5	<1	14	14	1.95	1.98	0.08	15	7	0.24	<1	260	94	35	0.09	60	<10	6
242	A00TM172	Porphyritic granodiorite	0.08	16	3.4	80	1	9.34	380	1.5	<2	0.09	<0.5	<1	7	32	0.56	3.71	0.27	45	<1	0.32	<1	80	20	59	0.15	62	<10	8
243	A00TM174	Porphyritic granodiorite	0.095	15	6.8	60	2	7.89	320	1.5	8	0.76	<0.5	17	40	3950	2.64	1.62	1.56	1230	5	1.46	16	1320	30	127	0.12	94	<10	244
244	A00RM101	Rhyolite	<0.005	6	0.6	<10	<0.2	6.6	1650	0.5	2	0.04	<0.5	<1	3	23	0.1	6.79	0.01	20	<1	0.33	<1	90	10	57	0.06	7	<10	6
245	A00RM106	Rhyolite	<0.005	9	2	<10	<0.2	5.48	860	1	2	0.06	1	<1	7	43	0.19	2.28	0.02	25	<1	2.68	<1	90	32	77	0.03	3	<10	6
246	A00RM111	Tuff	<0.005	2	0.2	30	<0.2	6.83	1080	2	2	0.06	<0.5	1	<1	8	1.82	5	0.05	735	<1	1.15	<1	30	16	89	0.05	9	<10	34
247	A00RM113	Tuff with quartz vein	<0.005	1	0.2	<10	<0.2	6.58	1060	2.5	6	0.06	<0.5	3	1	15	4.75	4.07	0.1	365	<1	1.48	<1	50	24	81	0.05	9	<10	76
248	A00RM114	Hydrothermal breccia (float)	<0.005	11	0.8	<10	<0.2	4.9	840	1.5	<2	0.05	<0.5	<1	8	5	1.51	2.7	0.03	125	<1	1.28	<1	110	66	120	0.05	5	<10	26
249	A00RM115	Brecciated vein (float)	<0.005	3	0.8	<10	<0.2	5.19	1790	2	<2	0.15	<0.5	<1	18	8	0.8	3.47	0.26	95	<1	1.18	<1	60	18	220	0.07	4	<10	36
250	A00RM116	Tuff breccia	<0.005	1	0.2	<10	<0.2	5.61	980	3.5	2	0.05	0.5	<1	8	5	1.48	4.6	0.07	175	<1	1.1	<1	<10	72	32	0.05	10	<10	156
251	A00RM117	Alt.rock with quartz veinlet	<0.005	2	<0.2	<10	<0.2	5.75	220	2	2	0.03	<0.5	<1	10	6	0.42	1.08	0.03	25	<1	3.63	<1	<10	6	22	0.04	3	<10	30
252	A00RM119	Quartz vein	<0.005	<1	<0.2	<10	<0.2	1.02	50	<0.5	<2	0.08	0.5	<1	9	5	0.09	0.22	0.03	10	<1	0.44	<1	90	2	23	0.01	1	<10	6
253	A00RM121	Jarosite network	<0.005	161	<0.2	<10	<0.2	0.15	10	<0.5	<2	0.06	<0.5	<1	<1	9	>25.0	2.86	<0.01	<5	<1	1.34	<1	10000	4	3490	<0.01	32	<10	<2
254	A00RM122	Altered rock	<0.005	29	0.6	20	<0.2	0.3	40	2	<2	0.01	<0.5	7	12	8	3.09	0.07	<0.01	15	5	<0.01	10	160	6	27	0.31	11	<10	<2
255	A00RM123	Altered rock with quartz veinlet	<0.005	14	0.6	<10	<0.2	2.62	150	2.5	4	0.06	<0.5	<1	8	8	0.84	0.64	0.07	15	3	0.08	<1	520	2	83	0.31	18	<10	<2
256	A00RM126	Altered rock with opal vein	<0.005	7	0.4	10	<0.2	0.15	70	<0.5	8	0.01	<0.5	10	18	16	0.36	0.03	<0.01	5	4	<0.01	5	110	6	72	0.78	9	<10	<2
257	A00RM130	Earthy limonite mass	<0.005	23	<0.2	<10	<0.2	0.39	60	<0.5	<2	0.51	1.5	13	<1	10	>25.0	0.08	0.1	6750	39	0.09	<1	390	2	72	0.03	15	<10	<2
258	A00RM131	Granitoid (float)	<0.005	9	<0.2	<10	<0.2	7.98	660	2.5	<2	0.13	<0.5	2	8	3	1.14	3.69	0.11	140	<1	2.07	2	210	32	97	0.07	18	<10	28
259	A00RM133	Qz vein	<0.005	1	<0.2	<10	0.2	1.28	60	0.5	4	0.2	<0.5	1	15	9	0.68	0.43	0.1	255	<1	0.03	1	30	8	13	0.04	14	<10	14
260	A00RM139	Rhyolite	<0.005	6	<0.2	<10	<0.2	6.9	690	2	<2	0.08	<0.5	<1	5	3	0.61	2.92	0.07	60	<1	2.87	<1	80	12	101	0.08	6	<10	24
261	A00RM140	Altered volcanic rock (float)	<0.005	4	<0.2	10	<0.2	8.57	410	0.5	2	0.07	0.5	3	56	15	2.02	1.35	0.01	5	1	0.59	4	790	16	518	0.33	165	<10	<2
262	A00RM141	Altered granitoid (float)	<0.005	<1	<0.2	<10	<0.2	6.8	710	2	10	0.03	<0.5	2	14	51	3.71	2.97	0.24	55	1	0.25	6	<10	4	19	0.04	21	<10	6
263	A00RM142	Altered rock (float)	<0.005	1	<0.2	<10	<0.2	0.13	30	<0.5	2	0.01	<0.5	<1	13	8	0.3	0.02	<0.01	5	30	<0.01	<1	<10	<2	10	0.11	4	<10	<2
264	A00RM143	Altered volcanic rock (float)	<0.005	7	3.2	20	<0.2	8.92	120	0.5	6	1.92	<0.5	19	28	39	4.47	0.46	2.33	570	<1	2.58	23	920	10	380	0.48	174	<10	102
265	A00RM144	Altered volcanic rock (float)	<0.005	8	0.2	70	0.4	6.07	240	<0.5	6	0.06	<0.5	<1	15	19	2.27	0.06	0.01	45	<1	0.17	<1	730	8	598	0.21	79	<10	2
266	A00RM145	Altered volcanic rock (float)	<0.005	2	<0.2	<10	<0.2	9.39	260	0.5	2	1.52	<0.5	3	76	7	3.82	0.57	2.38	670	1	4.32	21	960	68	399	0.37	165	<10	102
267	A00RM146	Altered volcanic rock (float)	<0.005	5	0.6	40	<0.2	8.36	360	<0.5	4	0.04	<0.5	19	15	38	4.39	0.09	0.01	50	<1	0.23	10	360	22	593	0.21	107	<10	<2

"Intf" stands for interference. When a sample has high Cu, there is often interference on the Bi and P. The instrument can't get a good reading of the Bi and P because the Cu "interferes" with the reading.

Appendix-7 Bulk chemical analysis results including PGM elements for the geochemical survey (only Phase I survey).

No.	Sample	Rock	Au (g/t)	Pt (g/t)	Pd (g/t)	Rh (g/t)	As (ppm)	Sb (ppm)	Hg (ppb)	Ag (ppm)	Al (%)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)
1	A00NK041	Gabbro	0.03	<0.07	<0.07	<0.03	2	<0.2	<10	0.2	10.35	80	<0.5	<2	7.18	6.5	43	271
2	A00NK042	Gabbro	<0.03	<0.07	<0.07	<0.03	3	<0.2	<10	<0.2	10.55	60	<0.5	<2	7.25	<0.5	45	278
3	A00NK043	Gabbro	<0.03	<0.07	<0.07	<0.03	2	<0.2	<10	<0.2	8.25	400	1.5	<2	4.22	<0.5	24	21
4	A00RM054	Gabbro	<0.03	<0.07	<0.07	<0.03	6	<0.2	<10	0.2	10.7	70	<0.5	<2	7.38	<0.5	47	239
5	A00RM057	Gabbro	<0.03	<0.07	<0.07	<0.03	7	<0.2	10	<0.2	10.3	80	<0.5	<2	7.27	<0.5	47	215

No.	Sample	Rock	Cu (ppm)	Fe (%)	K (%)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (ppm)	Pb (ppm)	Sr (ppm)	Ti (%)	V (ppm)	W (ppm)	Zn (ppm)
1	A00NK041	Gabbro	79	3.67	0.23	8.26	715	<1	1.05	403	100	318	87	0.12	102	<10	1615
2	A00NK042	Gabbro	40	3.65	0.37	8.57	715	<1	1.09	398	80	54	91	0.11	97	<10	94
3	A00NK043	Gabbro	21	5.69	1.89	1.23	885	<1	2.05	6	640	70	132	0.57	117	<10	102
4	A00RM054	Gabbro	34	3.86	0.39	8.62	760	<1	1.18	417	120	8	94	0.13	101	<10	48
5	A00RM057	Gabbro	39	4.09	0.48	7.99	800	<1	1.16	376	130	6	98	0.16	124	<10	44

Appendix-8 Bulk chemical analysis results for the petrochemical study.

No.	Sample	Rock	Alteration	SiO ₂ (%)	TiO ₂ (%)	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	MnO (%)	MgO (%)	CaO (%)	Na ₂ O (%)	K ₂ O (%)	P ₂ O ₅ (%)	Cr ₂ O ₃ (%)	LOI (%)	Total (%)
1	A00HH012	Andesitic porphyry	Weak	63.08	0.45	17.69	5.14	0.06	1.87	4.22	3.79	1.29	0.15	<0.01	1.64	99.38
2	A00MZ011	Qz porphyry	Weak	63.22	0.31	16.54	2.89	0.15	1.71	4.11	3.14	1.90	0.15	<0.01	4.61	98.73
3	A00MZ013	Dacite porphyry	Fresh	57.44	0.52	17.16	5.16	0.14	3.32	4.61	3.76	1.62	0.16	<0.01	4.66	98.55
4	A00MZ015	Tonalite	Fresh with green Cu stain	62.62	0.46	17.73	4.01	0.11	2.02	5.44	3.52	1.53	0.12	<0.01	1.46	99.02
5	A00MZ018	Granodiorite	Fresh	61.59	0.62	16.01	4.96	0.10	2.41	4.51	3.30	3.26	0.17	<0.01	1.68	98.61
6	A00MZ032	Granodiorite (Float)	Fresh	67.27	0.47	15.27	3.80	0.06	1.46	3.51	3.44	2.73	0.11	<0.01	1.16	99.28
7	A00MZ044	Microdiorite	Propylite	51.44	0.90	17.38	8.58	0.18	3.79	8.03	2.53	1.74	0.25	<0.01	4.19	99.01
8	A00TM009	Tonalite	Fresh	63.71	0.34	18.57	3.23	0.04	1.51	5.09	4.19	1.24	0.22	<0.01	0.98	99.12
9	A00TM018	Tonalite	Weak	62.49	0.69	16.07	4.92	0.14	2.52	4.75	2.69	2.81	0.17	<0.01	1.33	98.58
10	A00TM019	Diorite porphyry	Tourmalinization with qz epidote vein	52.68	0.92	20.80	6.31	0.21	2.45	5.57	3.33	5.17	0.19	<0.01	1.14	98.77
11	A00TM020	Tonalite	Fresh	61.05	0.55	17.46	5.59	0.14	2.39	6.45	3.17	1.56	0.13	<0.01	0.34	98.83
12	A00TM030	Tonalite	Potassic? with limonite stain	59.18	0.97	15.71	5.96	0.14	4.16	6.35	3.78	1.02	0.19	<0.01	1.77	99.23
13	A00RM013	Granite	Weak, qz vein with py diss.	63.67	0.64	15.43	4.84	0.09	2.78	2.43	2.29	3.87	0.12	<0.01	3.11	99.27
14	A00MZ103	Granodiorite		68.42	0.36	15.55	2.87	0.04	1.37	2.47	3.75	2.41	0.10	<0.01	1.51	98.85
15	A00MZ108	Granodiorite	Potassic	68.45	0.49	15.44	3.42	0.04	1.73	2.35	3.15	2.06	0.13	<0.01	1.77	99.03
16	A00MZ137	Granodiorite		51.21	0.99	19.97	8.37	0.15	3.17	9.10	2.81	0.88	0.12	<0.01	2.15	98.92
17	A00MZ139	Andesite		56.06	1.79	15.82	8.95	0.14	2.32	6.18	4.11	1.18	0.40	<0.01	1.93	98.88
18	A00TM125	Dacitic andesite		62.00	0.68	16.87	6.42	0.11	1.98	4.75	3.34	1.36	0.20	<0.01	1.34	99.05

No.	Sample	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)	Ni (ppm)	Ba (ppm)	Rb (ppm)	Sr (ppm)	Sn (ppm)	W (ppm)	U (ppm)	Th (ppm)	Cs (ppm)	Ga (ppm)	Hf (ppm)	Nb (ppm)	Ta (ppm)	Tl (ppm)	V (ppm)	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	Y (ppm)	Zr (ppm)
1	A00HH012	<1	12	75	225	5	<5	250	53.4	392	1	1	1	5	3.7	18	5	5	<0.5	<0.5	75	13	26	3.1	12.5	2.7	0.7	2.6	0.4	2.7	0.6	1.8	0.3	2	0.4	16	191.5
2	A00MZ011	<1	10	80	135	4	<5	727	77.2	432	<1	3	0.5	4	10.6	16	5	5	<0.5	<0.5	50	18	35.5	4.2	16	3.5	0.9	3	0.5	2.7	0.5	1.6	0.2	1.9	0.3	14	174.5
3	A00MZ013	<1	20	10	50	11	<5	735	62.8	414	<1	<1	1	3	19.1	18	4	3	1	<0.5	115	14	30	3.9	15	3	0.9	3	0.5	2.8	0.6	2	0.3	2.1	0.3	16	126.5
4	A00MZ015	<1	485	90	165	6	<5	489	55.8	431	1	3	1.5	4	5.5	18	5	3	<0.5	<0.5	80	15	31.5	3.8	15	2.8	0.9	3	0.5	2.3	0.6	1.9	0.3	1.9	0.3	14.5	171.5
5	A00MZ018	<1	70	10	45	9	5	524	93.6	404	1	<1	5	16	2.2	18	10	6	<0.5	<0.5	95	33.5	71	8.3	33.5	5.7	1.2	5.5	0.8	4.2	0.8	2.4	0.4	2.3	0.4	21.5	324
6	A00MZ032	<1	5	5	25	5.5	<5	528	85.4	193	4	1	2.5	12	3.4	18	8	4	<0.5	<0.5	65	26.5	50	5.5	20.5	3.6	1.1	3.6	0.6	3.8	0.7	2.1	0.3	2	0.4	18.5	277
7	A00MZ044	<1	40	5	65	23.5	10	500	50.2	471	<1	<1	1.5	6	2	18	4	1	<0.5	<0.5	230	17.5	37	4.7	20	4.2	1.3	4.4	0.7	3.9	0.8	2.5	0.3	2.3	0.4	20.5	116
8	A00TM009	<1	10	10	20	3.5	<5	1295	38	737	1	<1	2	10	5.5	20	6	4	0.5	<0.5	45	25.5	48	5.3	17	3.4	1	2.6	0.4	1.8	0.4	1	0.1	1.3	0.2	10.5	199.5
9	A00TM018	<1	5	50	130	11	5	330	148	306	2	1	5.5	18	7	21	8	5	0.5	<0.5	110	25.5	52	6.1	24	4.6	1.2	3.9	0.5	2.7	0.5	1.6	0.2	1.3	0.3	14	260
10	A00TM019	<1	10	25	140	18	10	694	267	165	1	6	0.5	4	10.1	23	5	4	1	1	190	19.5	41	5.4	23.5	5.3	1.6	5.3	0.8	4.7	0.9	2.8	0.4	2.4	0.3	24	172
11	A00TM020	<1	30	15	70	10.5	<5	367	53.2	393	1	1	1.5	4	4.7	19	7	3	<0.5	<0.5	110	14.5	30	3.7	15	3.3	1	3.3	0.6	3.5	0.6	2.1	0.3	1.9	0.3	17.5	229
12	A00TM030	<1	45	15	85	14.5	35	299	32.8	305	4	1	2	8	4.5	18	8	4	<0.5	<0.5	160	23	51	6.2	24.5	6	1.5	6.2	1	6.7	1.4	4	0.5	3.5	0.5	33	276
13	A00RM013	<1	40	15	65	13	15	545	181	196	4	6	6	22	6.3	18	9	6	0.5	0.5	115	33	66	7.7	30.5	5.9	1.2	5.7	0.9	4.9	1.1	3.1	0.4	2.3	0.4	26.5	307
14	A00MZ103	1	70	55	80	4	15	394	76.4	357	1	3	1	4	3	17	7	2	0.5	<0.5	35	16.5	32.5	3.9	14	3	0.9	2.7	0.5	2.3	0.5	1.4	0.2	1.4	0.2	12.5	286
15	A00MZ108	1	1295	35	35	7	15	1440	95	367	<1	3	2.5	16	3.1	17	9	4	<0.5	0.5	65	25	46	5.3	17.5	2.9	0.9	2.8	0.4	2.1	0.4	1.2	0.1	1.3	0.1	10.5	359
16	A00MZ137	<1	60	5	85	20	10	212	26.4	331	<1	1	0.5	11	2.3	20	3	2	1.5	<0.5	230	26	62	7.8	30	5.8	1.7	5.2	0.7	3.5	0.7	2	0.3	1.7	0.2	17	108.5
17	A00MZ139	<1	20	<5	95	18.5	5	267	37.4	304	1	1	0.5	4	0.8	19	6	6	<0.5	<0.5	185	16	38	5.1	22	4.9	1.7	5.4	0.9	5.4	1.1	3.2	0.5	3.1	0.5	29	261
18	A00TM125	<1	5	<5	55	7.5	5	583	51	474	<1	1	1.5	5	0.9	14	5	4	7	<0.5	65	15	31	3.8	15	3.2	1.1	3.3	0.5	2.6	0.5	1.5	0.2	1.5	0.2	14	204

Appendix-9 Chemical analysis results for pan concentrated samples (only Phase II survey).

No.	Sample No.	Pt (g/t)	Pd (g/t)	Au (ppb)	Sb (ppm)	As (ppm)	Ba (ppm)	Br (ppm)	Ce (ppm)	Cr (ppm)	Co (ppm)	La (ppm)
1	A00PNK101	<0.14	<0.14	<5	<1	3	240	<1	29	170	56	21
2	A00PNK102	<0.35	<0.35	18	<1	7	230	1	47	290	39	22
3	A00PNK103	<0.35	<0.35	<5	<1	5	230	1	54	190	37	28
4	A00PNK104	<0.14	<0.14	<5	<1	7	390	<1	65	110	25	29
5	A00PNK105	<0.35	<0.35	<5	<1	5	140	1	31	210	50	23
6	A00PNK106	<0.07	<0.07	<5	<1	4	330	<1	35	80	28	19
7	A00PNK107	not/ss	not/ss	<5	<1	3	280	2	36	210	24	25
8	A00PNK108	<0.21	<0.21	<5	<1	5	260	<1	85	93	28	44
9	A00PNK109	<0.35	<0.35	<5	<1	9	360	<1	110	180	31	59
10	A00PNK110	<0.35	<0.35	<5	<1	3	270	1	18	170	36	13
11	A00PNK111	<0.35	<0.35	<5	<1	2	590	1	53	140	11	28
12	A00PNK112	<0.35	<0.35	<5	<1	4	360	<1	73	200	27	41

No.	Sample No.	Mo (ppm)	Sc (ppm)	Ag (ppm)	Ta (ppm)	Th (ppm)	W (ppm)	U (ppm)	Cu (%)	Pb (%)	Zn (%)
1	A00PNK101	<2	47	<5	<1	4	<2	1	<0.01	<0.01	<0.01
2	A00PNK102	<2	31	<5	<1	5	<2	1	<0.01	<0.01	<0.01
3	A00PNK103	<2	36	<5	3	6	<2	2	<0.01	<0.01	0.01
4	A00PNK104	<2	19	<5	1	8	<2	2	<0.01	<0.01	<0.01
5	A00PNK105	<2	44	<5	4	4	<2	2	<0.01	<0.01	0.01
6	A00PNK106	<2	25	<5	2	4	<2	1	<0.01	<0.01	<0.01
7	A00PNK107	<2	20	<5	4	5	<2	2	<0.01	<0.01	<0.01
8	A00PNK108	3	21	<5	4	7	<2	4	<0.01	0.01	0.01
9	A00PNK109	3	22	<5	3	14	7	3	<0.01	<0.01	0.01
10	A00PNK110	<2	31	<5	<1	4	<2	1	<0.01	<0.01	<0.01
11	A00PNK111	<2	9	<5	1	11	<2	2	<0.01	<0.01	<0.01
12	A00PNK112	<2	19	<5	1	28	<2	7	<0.01	<0.01	<0.01

Appendix-10 Ore grade assay result.

No.	Sample	Mineralization	Au (g/t)	Ag (g/t)	Al (%)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	K (%)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	Pb (%)	Sr (ppm)	Ti (%)	V (ppm)	Zn (ppm)
1	A00NK019	gn cp py vein	0.24	118	0.9	100	<10	<20	0.25	880	30	<10	8080	5.55	0.4	0.05	670	<10	0.15	<10	4.29	50	<0.05	<10	148500
2	A00HH002	qz py gn vein	1.71	18	0.45	<100	<10	20	3.05	10	30	<10	150	7.55	0.1	0.15	1720	<10	<0.05	<10	0.7	20	<0.05	10	1900
3	A00HH024	qz py cp malachite gn vein	0.24	123	2.5	400	<10	<20	0.45	750	30	<10	15720	6.7	1.6	0.2	1840	<10	0.35	<10	5.91	90	<0.05	10	142000
4	A00MZ010	massive pyrite limonite	<0.03	11	0.05	<100	<10	40	0.35	<10	10	<10	1420	>30.0	<0.1	<0.05	80	<10	<0.05	<10	0.044	20	<0.05	<10	1240
5	A00MZ012	qz cal py gn vein	152.9	91	1.1	<100	<10	<20	2.35	10	10	<10	1660	13.4	0.5	0.8	750	<10	<0.05	<10	2.18	50	0.05	40	3900
6	A00MZ016	qz cal py gn vein	5.49	14	1.8	<100	<10	<20	5.6	70	10	10	320	6.95	0.7	1.75	5200	<10	<0.05	<10	1.15	80	0.05	40	9120
7	A00MZ019	barite Fe oxides vein	0.03	31	1.05	7400	<10	<20	0.65	100	10	<10	220	8.55	0.4	0.05	36400	10	<0.05	<10	2.01	2480	<0.05	750	7200
8	A00MZ020	barite galena Fe oxides vein	<0.03	912	<0.05	2100	<10	<20	<0.05	30	<10	<10	700	0.2	<0.1	<0.05	1710	<10	<0.05	<10	15.1	910	<0.05	1440	540
9	A00MZ021	qz malachite veinlet	0.45	15	5	2000	<10	80	0.15	<10	<10	<10	9000	4.2	2.5	0.15	230	140	0.6	<10	0.054	80	0.1	40	100
10	A00MZ028	qz py gn bornite vein	0.18	321	0.9	200	<10	<20	<0.05	90	<10	10	50	15.35	0.3	<0.05	360	<10	<0.05	<10	9.92	10	<0.05	<10	24300
11	A00MZ030	gn py cp vein	0.09	74	1.35	400	<10	<20	0.15	1650	50	<10	7270	5.4	1.3	0.05	1360	<10	<0.05	<10	15.4	80	<0.05	<10	263000
12	A00MZ036	cp veinlets and cp diss. in andesite	<0.03	13	8.4	500	<10	20	4.4	<10	50	50	36900	6.3	1.3	2.9	1070	<10	2	60	0.059	290	0.65	270	640
13	A00MZ037	malachite with brecciated andesite	<0.03	22	8.6	100	<10	<20	9.95	<10	20	50	47200	6.95	0.2	1.25	1040	<10	1.1	20	0.021	620	0.7	370	120
14	A00MZ041	qz py gn vein	0.12	3	0.9	300	<10	<20	24.2	30	<10	<10	310	1.55	0.1	0.15	25900	<10	<0.05	<10	0.398	120	<0.05	40	6500
15	A00MZ042	galena vein	3.09	17	0.85	300	<10	<20	0.05	930	<10	<10	7390	2.65	0.1	0.3	1470	<10	<0.05	<10	3.82	50	<0.05	20	199500
16	A00MZ046	qz cp py gn vein	4.11	6	1.25	200	<10	20	0.55	<10	<10	<10	4070	3.9	0.4	0.2	750	10	<0.05	<10	0.059	40	0.05	30	1060
17	A00MZ048	white and massive qz vein	2.94	5	0.4	200	<10	<20	0.05	<10	<10	20	30	0.05	<0.1	<0.05	40	<10	<0.05	<10	0.012	30	<0.05	<10	120
18	A00MZ049	black and white banding qz vein	14.4	3	0.5	<100	<10	<20	0.05	<10	<10	20	40	0.05	0.1	<0.05	20	<10	<0.05	<10	0.003	50	<0.05	<10	60
19	A00MZ055	qz cp gn malachite vein	0.54	18	1.75	<100	<10	<20	<0.05	160	<10	<10	6330	0.5	0.7	0.05	70	200	<0.05	<10	10.9	40	<0.05	10	12940
20	A00MZ068	gn sp py vein	0.93	14	0.65	<100	<10	20	<0.05	1310	<10	<10	1150	3.65	<0.1	0.25	370	10	<0.05	<10	3.56	<10	<0.05	<10	134000
21	A00TM049	black qz vein	0.12	<1	3.3	100	<10	<20	0.35	<10	<10	10	10	0.85	2.6	0.05	80	<10	<0.05	<10	0.014	50	0.2	70	280
22	A00TM051	black and white qz vein	0.12	<1	0.45	<100	<10	<20	0.05	<10	<10	10	<10	0.35	0.1	<0.05	10	<10	<0.05	<10	0.004	20	<0.05	<10	60
23	A00RM029	gn py cp green Cu vein	0.06	27	0.6	100	<10	<20	0.05	880	40	<10	3510	6.75	0.4	0.05	1000	<10	<0.05	<10	6.3	30	<0.05	<10	130000
24	A00RM046	white chalcadonic qz vein	42.72	41	0.55	<100	<10	<20	0.05	<10	<10	20	10	0.05	0.1	<0.05	30	<10	<0.05	<10	0.023	20	<0.05	<10	300
25	A00HH109	Malachite	0.12	6	5.7	900	<10	60	0.05	<10	10	<10	132500	5.65	2.5	0.25	20	<10	0.05	<10	0.001	<10	0.05	40	<20
26	A00HH111	Pyrite malachite	0.18	4	0.3	<100	<10	<20	<0.05	<10	10	10	3440	3.55	<0.1	<0.05	70	<10	<0.05	<10	0.001	50	<0.05	60	40
27	A00HH124	Malachite, chalcopryrite, pyrite	<0.03	6	8.55	100	<10	<20	4.6	<10	50	80	14250	7.4	0.7	3.45	1440	<10	2.25	50	0.003	330	0.7	290	180
28	A00HH126	Malachite, chalcopryrite	<0.03	4	7.15	100	<10	<20	5.75	<10	50	150	10720	3.35	0.5	1.6	740	<10	2.7	60	0.003	240	0.7	230	80
29	A00HH127	Malachite, chalcopryrite	<0.03	3	7.45	<100	<10	<20	10.35	<10	10	120	13640	7.1	<0.1	0.25	870	40	<0.05	10	0.004	780	0.55	290	20
30	A00HH129	Malachite, chalcopryrite	<0.03	3	4.35	400	<10	<20	4.55	<10	150	<10	990	3.05	2.1	1.1	1910	<10	<0.05	10	0.001	120	0.1	90	100
31	A00HH130	Malachite	<0.03	2	7.2	300	<10	<20	0.05	<10	10	<10	2100	1.5	2.1	0.2	430	<10	2	40	0.001	50	<0.05	10	60
32	A00MZ123	Galena dissemination	0.87	4	0.5	<100	<10	<20	<0.05	<10	<10	10	80	0.55	0.2	<0.05	30	10	<0.05	<10	0.184	50	<0.05	<10	20
33	A00MZ125	Galena pyrite limonite	0.42	6	1.1	<100	<10	1120	<0.05	10	60	<10	340	9.1	0.4	<0.05	10	<10	<0.05	<10	0.011	100	<0.05	<10	<20
34	A00MZ127	Massive limonite	<0.03	1	0.6	<100	<10	40	0.15	<10	60	<10	<10	>30.0	<0.1	<0.05	4540	<10	<0.05	<10	0.007	90	<0.05	<10	560
35	A00MZ132	Chalcocite, malachite	0.06	32	5.65	<100	<10	<20	7.2	<10	<10	40	43900	4.65	<0.1	0.05	780	<10	<0.05	<10	0.007	690	0.3	240	<20
36	A00MZ134	Malachite	<0.03	4	8.3	500	<10	<20	0.3	<10	30	30	8720	3.25	2.1	1.5	1540	<10	2.85	10	0.004	140	0.35	140	220
37	A00TM112	Chalcopryrite, malachite, azurite, pyri	14.04	524	3.65	100	<10	220	0.05	20	<10	<10	27500	0.85	1.7	0.1	40	340	0.05	<10	2.69	30	0.15	20	800
38	A00TM149	Barite, azurite, malachite	<0.03	45	0.15	11100	<10	20	0.05	30	<10	<10	17400	0.3	<0.1	<0.05	20	70	<0.05	<10	0.604	770	<0.05	280	2140
39	A00RM128	Oxide Cu	0.42	1585	6.4	300	<10	80	6.45	<10	<10	50	254000	6.05	<0.1	0.45	530	<10	0.6	<10	0.012	1640	0.1	200	<20
40	A00RM132	Wad	<0.03	2	2	700	<10	60	0.75	<10	40	<10	130	>30.0	0.2	0.3	54200	<10	0.15	<10	0.007	100	0.05	10	60

Appendix-11

Homogenization temperature and salinity of fluid inclusions of quartz samples (1/19)

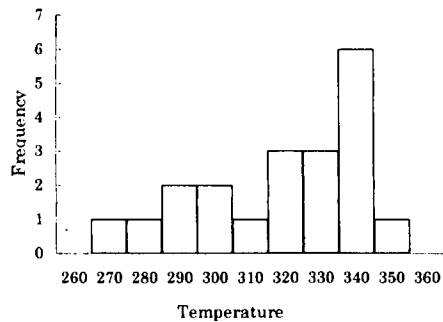
Sample A00NK013

No.	Mineral	Size (mp)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	37.5	17	tu	341	183.0	30.9
2	Quartz	12.5	15	po	347	192.0	31.4
3	Quartz	10.0	15	po	296	234.0	33.5
4	Quartz	10.0	15	po	288	211.0	32.4
5	Quartz	17.5	13	po	306	243.0	34.1
6	Quartz	30.0	13	po	352	225.0	32.9
7	Quartz	17.5	13	po	279	195.0	31.4
8	Quartz	22.5	15	tu	337	201.0	31.9
9	Quartz	15.0	15	po	327	214.0	32.4
10	Quartz	7.5	13	po	343	222.0	32.9
11	Quartz	7.5	13	po	313	225.0	32.9
12	Quartz	22.5	17	tu	325	194.0	31.4
13	Quartz	17.5	17	wg	344	199.0	31.4
14	Quartz	5.0	15	po	335	228.0	32.9
15	Quartz	10.0	15	po	341	204.0	31.9
16	Quartz	7.5	13	po	327	221.0	32.9
17	Quartz	17.5	17	po	338	235.0	33.5
18	Quartz	17.5	15	tu	343	195.0	31.4
19	Quartz	10.0	13	po	303	223.0	32.9
20	Quartz	7.5	13	po	295	201.0	31.9

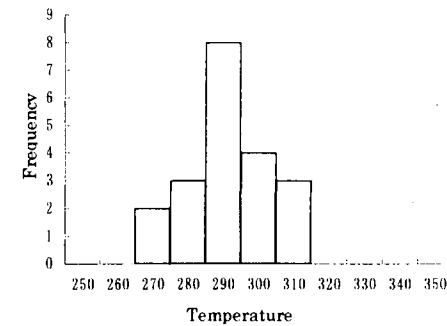
Homogenization temperature and salinity of fluid inclusions of quartz samples (2/19)

Sample A00NK038

No.	Mineral	Size (mp)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	7.5	15	wg	291	-0.4	0.71
2	Quartz	5.0	15	po	305	-0.4	0.71
3	Quartz	2.5	13	po	282	-	-
4	Quartz	< 2.5	12	po	273	-	-
5	Quartz	< 2.5	10	eg	275	-	-
6	Quartz	10.0	17	po	311	-0.3	0.53
7	Quartz	5.0	15	po	302	-0.4	0.71
8	Quartz	5.0	17	sq	295	-0.2	0.35
9	Quartz	5.0	17	sq	297	-0.2	0.35
10	Quartz	5.0	15	po	303	-0.4	0.71
11	Quartz	2.5	12	po	292	-	-
12	Quartz	< 2.5	10	po	296	-	-
13	Quartz	< 2.5	10	eg	280	-	-
14	Quartz	< 2.5	10	eg	291	-	-
15	Quartz	7.5	15	po	303	-0.2	0.35
16	Quartz	7.5	13	po	312	-0.5	0.88
17	Quartz	5.0	12	po	292	-0.4	0.71
18	Quartz	5.0	15	sq	310	-0.2	0.35
19	Quartz	< 2.5	12	eg	295	-	-
20	Quartz	< 2.5	10	eg	287	-	-



Mineral Quartz
 Inclusions 20
 Maximum 352 °C
 Minimum 279 °C
 Average 324.0 °C
 deviation 21.6



Mineral Quartz
 Inclusions 20.0
 Maximum 312.0 °C
 Minimum 273.0 °C
 Average 294.6 °C
 deviation 11.0

Appendix-11

Homogenization temperature and salinity of fluid inclusions of quartz samples (3/19)

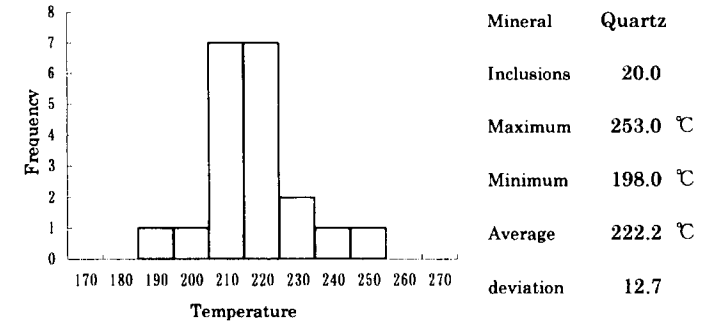
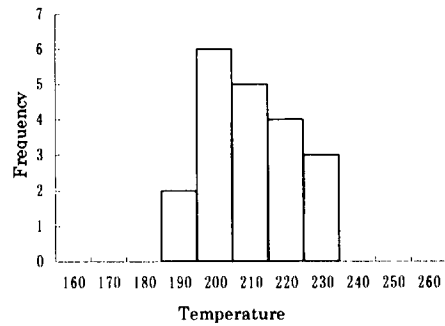
Sample A00MZ012

No.	Mineral	Size (μ)	Volume ratio (%)	Form	Temperature ($^{\circ}$ C)	Melting Temperature ($^{\circ}$ C)	NaCl Wt (%)
1	Quartz	25.0	15	irr	225	-2.1	3.55
2	Quartz	10.0	13	irr	193	-2.1	3.55
3	Quartz	7.5	13	irr	206	-1.9	3.23
4	Quartz	22.5	15	irr	219	-2.4	4.03
5	Quartz	20.0	17	po	223	-2.1	3.55
6	Quartz	10.0	13	irr	208	-2.2	3.71
7	Quartz	15.0	13	irr	214	-2.1	3.55
8	Quartz	17.5	15	irr	231	-2.4	4.03
9	Quartz	5.0	13	po	223	-	-
10	Quartz	5.0	12	po	214	-	-
11	Quartz	22.5	15	irr	204	-2.2	3.71
12	Quartz	17.5	15	irr	197	-2.1	3.55
13	Quartz	17.5	13	irr	202	-2.1	3.55
14	Quartz	10.0	12	po	201	-2.1	3.55
15	Quartz	7.5	15	po	235	-	-
16	Quartz	5.0	13	po	215	-	-
17	Quartz	5.0	13	po	223	-	-
18	Quartz	12.5	15	wg	232	-2.2	3.71
19	Quartz	5.0	13	po	219	-	-
20	Quartz	5.0	12	po	205	-	-

Homogenization temperature and salinity of fluid inclusions of quartz samples (4/19)

Sample A00MZ016

No.	Mineral	Size (μ)	Volume ratio (%)	Form	Temperature ($^{\circ}$ C)	Melting Temperature ($^{\circ}$ C)	NaCl Wt (%)
1	Quartz	27.5	15	irr	223	-3.1	5.11
2	Quartz	10.0	10	po	215	-3.2	5.26
3	Quartz	17.5	10	po	213	-2.7	4.49
4	Quartz	7.5	10	po	216	-3.2	5.26
5	Quartz	7.5	12	po	227	-3.3	5.41
6	Quartz	20.0	13	po	233	-2.6	4.34
7	Quartz	25.0	20	po	253	-3.0	4.96
8	Quartz	12.5	12	irr	221	-2.2	3.71
9	Quartz	10.0	10	irr	208	-1.8	3.06
10	Quartz	7.5	10	po	220	-	-
11	Quartz	7.5	17	po	245	-	-
12	Quartz	17.5	13	irr	226	-2.2	3.71
13	Quartz	25.0	12	irr	228	-3.4	5.56
14	Quartz	10.0	10	tu	198	-2.5	4.18
15	Quartz	7.5	10	po	213	-	-
16	Quartz	7.5	10	po	212	-	-
17	Quartz	10.0	12	po	228	-2.8	4.65
18	Quartz	32.5	13	irr	215	-3.3	5.41
19	Quartz	17.5	15	po	237	-3.2	5.26
20	Quartz	12.5	13	po	213	-2.7	4.49

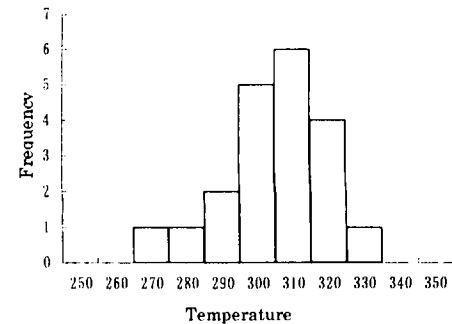


Appendix-11

Homogenization temperatura and salinity of fluid inclusions of quartz samples (5/19)

Sample A00MZ017

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	37.5	15	po	313	-3.0	4.96
2	Quartz	55.0	13	irr	272	-2.1	3.55
3	Quartz	7.5	15	po	308	-0.3	5.26
4	Quartz	7.5	13	po	295	-2.6	4.34
5	Quartz	7.5	13	po	331	-2.6	4.34
6	Quartz	12.5	17	po	311	-3.0	4.96
7	Quartz	2.5	17	po	283	-	-
8	Quartz	12.5	13	po	315	-1.9	3.23
9	Quartz	5.0	13	po	326	-	-
10	Quartz	5.0	13	po	314	-	-
11	Quartz	15.0	15	irr	301	-2.0	3.39
12	Quartz	12.5	17	sq	328	-2.5	4.18
13	Quartz	7.5	15	sq	304	-2.8	4.65
14	Quartz	5.0	13	po	313	-	-
15	Quartz	32.5	13	irr	320	-3.1	5.11
16	Quartz	20.0	13	irr	321	-1.8	3.06
17	Quartz	12.5	13	po	295	-2.5	4.18
18	Quartz	10.0	12	po	304	-2.7	4.49
19	Quartz	7.5	12	po	307	-	-
20	Quartz	10.0	13	po	313	-2.8	4.65

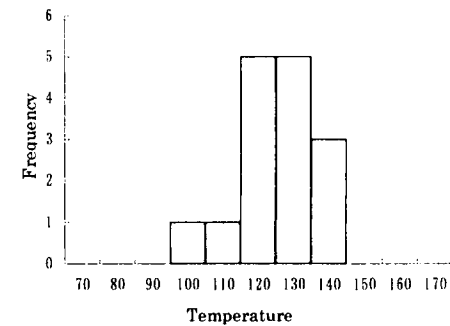


Mineral Quartz
 Inclusions 20
 Maximum 331 °C
 Minimum 272 °C
 Average 308.7 °C
 deviation 14.3

Homogenization temperatura and salinity of fluid inclusions of quartz samples (6/19)

Sample A00MZ043

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	12.5	10	irr	128	-0.9	1.57
2	Quartz	5.0	10	irr	109	-1.0	1.74
3	Quartz	< 2.5	7	po	127	-	-
4	Quartz	< 2.5	7	eg	134	-	-
5	Quartz	< 2.5	10	eg	141	-	-
6	Quartz	7.5	12	po	144	-1.2	2.07
7	Quartz	5.0	10	po	136	-1.3	2.24
8	Quartz	5.0	10	irr	122	-0.9	1.57
9	Quartz	2.5	7	po	121	-	-
10	Quartz	< 2.5	7	po	133	-	-
11	Quartz	5.0	10	irr	140	-0.8	1.40
12	Quartz	5.0	7	irr	133	-1.4	2.41
13	Quartz	5.0	7	irr	136	-0.9	1.57
14	Quartz	< 2.5	7	po	129	-	-
15	Quartz	< 2.5	5	eg	117	-	-



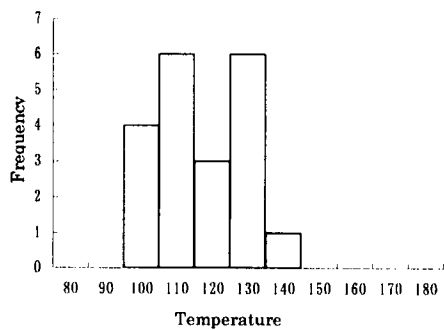
Mineral Quartz
 Inclusions 15.0
 Maximum 144.0 °C
 Minimum 109.0 °C
 Average 130.0 °C
 deviation 9.3

Appendix 11

Homogenization temperatura and salinity of fluid inclusions of quartz samples (7/19)

Sample A00MZ046

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature ($^{\circ}\text{C}$)	Melting Temperature ($^{\circ}\text{C}$)	NaCl Wt (%)
1	Quartz	12.5	10	po	106	-1.6	2.74
2	Quartz	10.0	12	po	112	-1.8	3.06
3	Quartz	5.0	10	po	130	-	-
4	Quartz	5.0	7	po	105	-	-
5	Quartz	7.5	12	po	141	-1.2	2.07
6	Quartz	10.0	12	wg	136	-0.7	1.23
7	Quartz	12.5	12	wg	132	-1.4	2.41
8	Quartz	5.0	10	po	124	-	-
9	Quartz	5.0	10	po	117	-	-
10	Quartz	7.5	12	po	132	-1.5	2.57
11	Quartz	10.0	10	wg	135	-1.2	2.07
12	Quartz	7.5	7	po	109	-1.2	2.07
13	Quartz	17.5	10	irr	115	-1.0	1.74
14	Quartz	12.5	12	irr	121	-0.8	1.40
15	Quartz	5.0	10	po	114	-	-
16	Quartz	5.0	7	po	113	-	-
17	Quartz	10.0	12	po	138	-1.3	2.24
18	Quartz	7.5	10	po	122	-1.7	2.90
19	Quartz	5.0	10	po	112	-1.4	2.41
20	Quartz	5.0	7	po	107	-	-

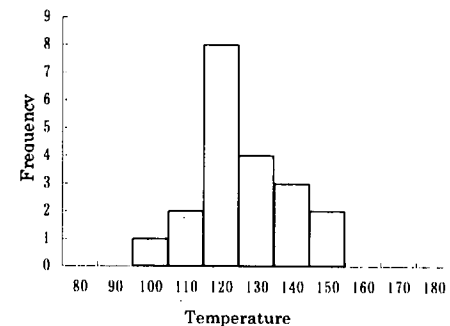


Mineral Quartz
 Inclusions 20
 Maximum 141 $^{\circ}\text{C}$
 Minimum 105 $^{\circ}\text{C}$
 Average 121.1 $^{\circ}\text{C}$
 deviation 11.4

Homogenization temperatura and salinity of fluid inclusions of quartz samples (8/19)

Sample A00MZ048

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature ($^{\circ}\text{C}$)	Melting Temperature ($^{\circ}\text{C}$)	NaCl Wt (%)
1	Quartz	10.0	12	po	135	-0.8	1.40
2	Quartz	5.0	10	po	127	-1.1	1.91
3	Quartz	5.0	13	sq	145	-0.2	0.35
4	Quartz	2.5	10	po	119	-	-
5	Quartz	< 2.5	10	po	123	-	-
6	Quartz	< 2.5	7	eg	108	-	-
7	Quartz	12.5	12	po	137	-0.9	1.57
8	Quartz	7.5	12	po	152	-0.8	1.40
9	Quartz	7.5	10	po	137	-0.6	1.05
10	Quartz	5.0	10	sq	142	-0.8	1.40
11	Quartz	2.5	7	po	125	-	-
12	Quartz	< 2.5	10	eg	153	-	-
13	Quartz	< 2.5	7	eg	129	-	-
14	Quartz	12.5	15	irr	117	-0.8	1.40
15	Quartz	10.0	10	sq	143	-1.0	1.74
16	Quartz	5.0	12	po	125	-0.8	1.40
17	Quartz	5.0	10	po	121	-	-
18	Quartz	5.0	10	po	123	-0.8	1.40
19	Quartz	< 2.5	10	po	135	-	-
20	Quartz	< 2.5	7	eg	122	-	-



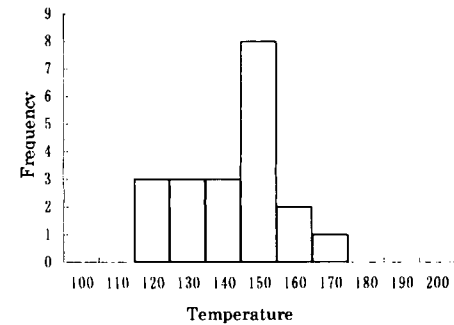
Mineral Quartz
 Inclusions 20.0
 Maximum 153.0 $^{\circ}\text{C}$
 Minimum 108.0 $^{\circ}\text{C}$
 Average 130.9 $^{\circ}\text{C}$
 deviation 11.7

Appendix 11

Homogenization temperatura and salinity of fluid inclusions of quartz samples (9/19)

Sample A00MZ051

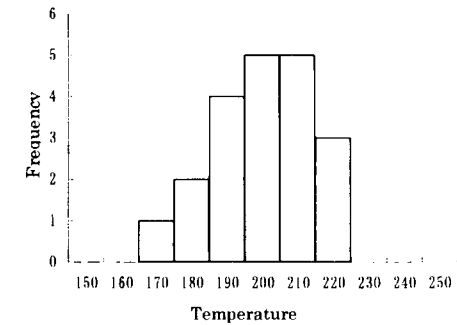
No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	12.5	12	irr	142	-0.4	0.71
2	Quartz	10.0	10	irr	121	-0.1	0.18
3	Quartz	5.0	13	po	155	-0.6	1.05
4	Quartz	5.0	12	po	132	-	-
5	Quartz	5.0	10	po	124	-	-
6	Quartz	7.5	12	irr	127	-0.6	1.05
7	Quartz	5.0	12	po	157	-0.5	0.88
8	Quartz	< 2.5	10	po	143	-	-
9	Quartz	5.0	15	sq	167	-0.3	0.53
10	Quartz	5.0	13	po	157	-0.2	0.35
11	Quartz	5.0	12	po	138	-0.2	0.35
12	Quartz	10.0	12	wg	155	-0.3	0.53
13	Quartz	7.5	13	po	152	-0.6	1.05
14	Quartz	5.0	12	po	145	-0.8	1.40
15	Quartz	5.0	12	po	161	-0.3	0.53
16	Quartz	5.0	17	sq	173	-0.2	0.35
17	Quartz	5.0	12	po	155	-	-
18	Quartz	2.5	10	po	132	-	-
19	Quartz	< 2.5	7	eg	150	-	-
20	Quartz	5.0	12	po	158	-0.3	0.53



Homogenization temperatura and salinity of fluid inclusions of quartz samples (10/19)

Sample A00MZ066

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	10.0	15	po	195	-1.4	2.41
2	Quartz	7.5	15	po	203	-1.6	2.74
3	Quartz	7.5	13	po	211	-1.3	2.24
4	Quartz	5.0	12	sq	209	-1.3	2.24
5	Quartz	5.0	13	sq	223	-	-
6	Quartz	10.0	15	irr	180	-1.5	2.57
7	Quartz	5.0	15	po	203	-1.7	2.90
8	Quartz	2.5	10	po	191	-	-
9	Quartz	< 2.5	10	po	194	-	-
10	Quartz	< 2.5	7	eg	177	-	-
11	Quartz	12.5	13	po	221	-1.3	2.24
12	Quartz	10.0	12	po	215	-1.2	2.07
13	Quartz	5.0	10	sq	201	-	-
14	Quartz	5.0	13	sq	215	-	-
15	Quartz	7.5	12	po	213	-1.5	2.57
16	Quartz	12.5	12	po	195	-1.9	3.23
17	Quartz	10.0	13	sq	222	-1.4	2.41
18	Quartz	5.0	12	po	213	-	-
19	Quartz	5.0	12	po	207	-	-
20	Quartz	7.5	10	po	183	-1.2	2.07

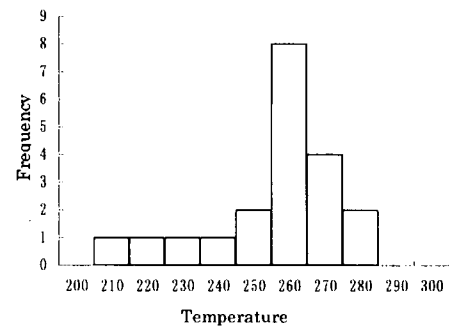


Appendix-11

Homogenization temperatura and salinity of fluid inclusions of quartz samples (11/19)

Sample A00TM039

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	12.5	17	po	224	161.0	30.1
2	Quartz	12.5	15	po	265	125.0	28.6
3	Quartz	10.0	20	po	275	166.0	30.1
4	Quartz	10.0	17	po	253	131.0	28.9
5	Quartz	10.0	20	po	277	165.0	30.1
6	Quartz	5.0	20	sq	283	172.0	30.5
7	Quartz	5.0	17	sq	275	177.0	30.5
8	Quartz	7.5	20	po	281	135.0	28.9
9	Quartz	7.5	17	po	263	125.0	28.6
10	Quartz	5.0	13	po	242	117.0	28.3
11	Quartz	12.5	13	irr	215	182.0	30.9
12	Quartz	10.0	17	po	261	131.0	28.9
13	Quartz	7.5	15	irr	237	177.0	30.5
14	Quartz	5.0	15	po	262	-	-
15	Quartz	5.0	13	po	251	125.0	28.6
16	Quartz	10.0	15	po	262	163.0	30.1
17	Quartz	7.5	20	sq	266	152.0	29.7
18	Quartz	10.0	17	wg	263	164.0	30.1
19	Quartz	7.5	17	po	261	162.0	30.1
20	Quartz	7.5	20	po	273	-	-

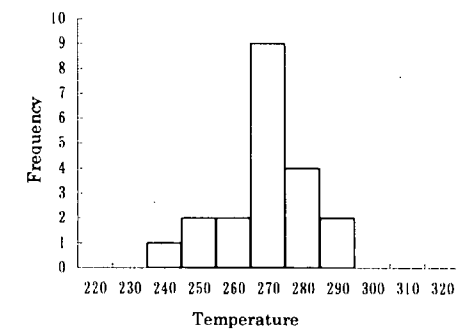


Mineral	Quartz
Inclusions	20
Maximum	283 °C
Minimum	215 °C
Average	259.5 °C
deviation	17.7

Homogenization temperatura and salinity of fluid inclusions of quartz samples (12/19)

Sample A00TM042

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	27.5	13	irr	276	-2.5	4.18
2	Quartz	7.5	13	po	241	-1.2	2.07
3	Quartz	32.5	15	irr	279	-2.0	3.39
4	Quartz	20.0	13	po	251	-3.4	5.56
5	Quartz	22.5	17	irr	270	-3.2	5.26
6	Quartz	17.5	17	irr	271	-2.2	3.71
7	Quartz	12.5	20	po	288	-1.5	2.57
8	Quartz	10.0	17	po	267	-1.7	2.90
9	Quartz	10.0	20	po	282	-2.0	3.39
10	Quartz	5.0	13	po	255	-	-
11	Quartz	17.5	20	irr	289	-2.7	4.49
12	Quartz	10.0	17	po	274	-2.8	4.65
13	Quartz	7.5	20	po	295	-	-
14	Quartz	7.5	17	po	275	-	-
15	Quartz	12.5	17	po	291	-3.0	4.96
16	Quartz	40.0	20	irr	283	-1.3	2.24
17	Quartz	22.5	17	irr	275	-1.5	2.57
18	Quartz	10.0	17	po	279	-2.2	3.71
19	Quartz	5.0	15	po	260	-	-
20	Quartz	12.5	17	po	271	-2.1	3.55



Mineral	Quartz
Inclusions	20.0
Maximum	295.0 °C
Minimum	241.0
Average	273.6 °C
deviation	13.4

Appendix-11

Homogenization temperature and salinity of fluid inclusions of quartz samples (13/19)

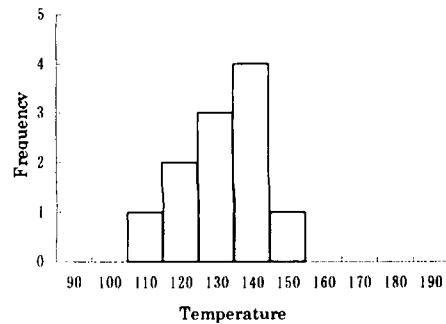
Sample A00TM059

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	5.0	13	po	145	-0.8	1.40
2	Quartz	5.0	12	po	132	-0.9	1.57
3	Quartz	2.5	10	po	147	-	-
4	Quartz	< 2.5	7	po	124	-	-
5	Quartz	< 2.5	10	eg	143	-	-
6	Quartz	< 2.5	7	eg	121	-	-
7	Quartz	< 2.5	7	eg	119	-	-
8	Quartz	5.0	12	po	135	-0.4	0.71
9	Quartz	< 2.5	10	eg	151	-	-
10	Quartz	< 2.5	7	eg	144	-	-
11	Quartz	< 2.5	7	eg	132	-	-

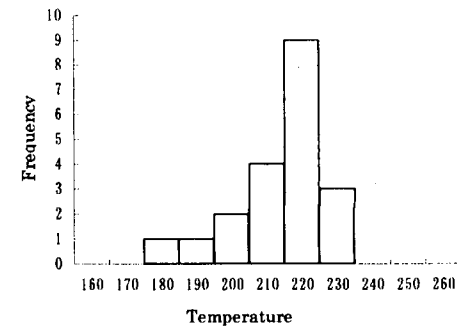
Homogenization temperature and salinity of fluid inclusions of quartz samples (14/19)

Sample A00MZ119

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	7.5	10	po	227	-0.3	0.53
2	Quartz	5.0	12	po	231	-0.8	1.40
3	Quartz	5.0	10	po	217	-1.3	2.24
4	Quartz	2.5	10	po	221	-	-
5	Quartz	2.5	7	po	189	-	-
6	Quartz	5.0	10	po	222	-1.0	1.74
7	Quartz	10.0	12	wg	235	-1.5	2.57
8	Quartz	5.0	10	po	228	-0.1	0.18
9	Quartz	7.5	12	po	225	-1.7	2.90
10	Quartz	5.0	10	po	210	-0.3	0.53
11	Quartz	2.5	10	eg	221	-	-
12	Quartz	2.5	7	po	194	-	-
13	Quartz	< 2.5	10	eg	207	-	-
14	Quartz	< 2.5	10	eg	225	-	-
15	Quartz	5.0	13	sq	238	-0.6	1.05
16	Quartz	7.5	12	po	224	-0.5	0.88
17	Quartz	7.5	10	po	208	0.0	0.00
18	Quartz	5.0	10	po	212	-1.4	2.41
19	Quartz	2.5	10	po	226	-	-
20	Quartz	< 2.5	7	po	215	-	-



Mineral Quartz
 Inclusions 11
 Maximum 151 °C
 Minimum 119 °C
 Average 135.7 °C
 deviation 10.6



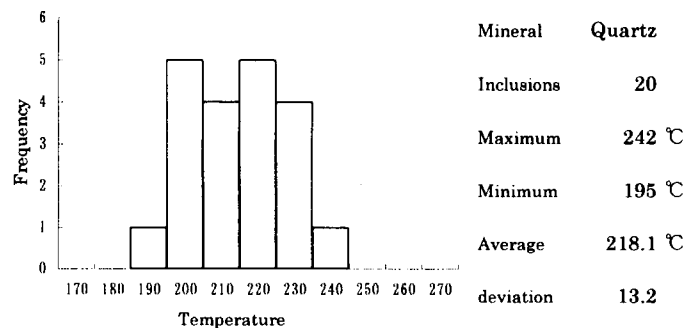
Mineral Quartz
 Inclusions 20.0
 Maximum 352.0 °C
 Minimum 279.0 °C
 Average 321.8 °C
 deviation 21.7

Appendix 11

Homogenization temperature and salinity of fluid inclusions of quartz samples (15/19)

Sample A00MZ148

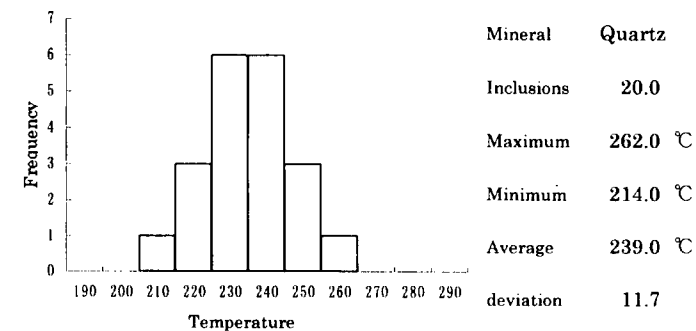
No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature ($^{\circ}\text{C}$)	Melting Temperature ($^{\circ}\text{C}$)	NaCl Wt (%)
1	Quartz	17.5	17	irr	235	-0.7	1.23
2	Quartz	10.0	15	po	223	-0.2	0.35
3	Quartz	12.5	15	sq	207	-0.4	0.71
4	Quartz	15.0	15	po	236	-0.3	0.53
5	Quartz	25.0	17	po	221	-0.3	0.53
6	Quartz	27.5	15	irr	202	-0.5	0.88
7	Quartz	25.0	13	irr	206	-0.8	1.40
8	Quartz	12.5	15	po	217	-1.0	1.74
9	Quartz	10.0	20	tr	242	-0.4	0.71
10	Quartz	7.5	17	po	213	-	-
11	Quartz	15.0	17	wg	235	-0.3	0.53
12	Quartz	20.0	13	irr	202	-0.7	1.23
13	Quartz	22.5	15	irr	210	-0.7	1.23
14	Quartz	15.0	17	po	222	-0.8	1.40
15	Quartz	10.0	13	po	195	-0.6	1.05
16	Quartz	10.0	15	irr	212	-0.7	1.23
17	Quartz	7.5	15	po	233	-	-
18	Quartz	12.5	13	irr	203	-0.7	1.23
19	Quartz	10.0	12	po	220	-0.7	1.23
20	Quartz	7.5	13	po	227	-	-



Homogenization temperature and salinity of fluid inclusions of quartz samples (16/19)

Sample A00TM103

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature ($^{\circ}\text{C}$)	Melting Temperature ($^{\circ}\text{C}$)	NaCl Wt (%)
1	Quartz	15.0	17	po	246	-8.3	12.05
2	Quartz	12.5	12	po	223	-11.2	15.17
3	Quartz	5.0	13	po	235	-	-
4	Quartz	10.0	13	po	241	-10.5	14.46
5	Quartz	12.5	15	irr	247	-8.6	12.39
6	Quartz	10.0	15	wg	255	-11.3	15.27
7	Quartz	5.0	17	po	239	-	-
8	Quartz	5.0	15	po	214	-	-
9	Quartz	17.5	15	irr	221	-10.6	14.57
10	Quartz	12.5	13	irr	232	-9.8	13.72
11	Quartz	12.5	13	po	238	-10.9	14.87
12	Quartz	5.0	17	sq	252	-	-
13	Quartz	5.0	13	po	241	-	-
14	Quartz	17.5	15	irr	250	-12.3	16.24
15	Quartz	15.0	13	po	244	-11.6	15.57
16	Quartz	7.5	12	po	235	-	-
17	Quartz	7.5	17	sq	262	-8.2	11.93
18	Quartz	10.0	15	irr	232	-10.3	14.25
19	Quartz	5.0	12	po	227	-	-
20	Quartz	12.5	13	irr	245	-10.5	14.46



Appendix-11

Homogenization temperature and salinity of fluid inclusions of quartz samples (17/19)

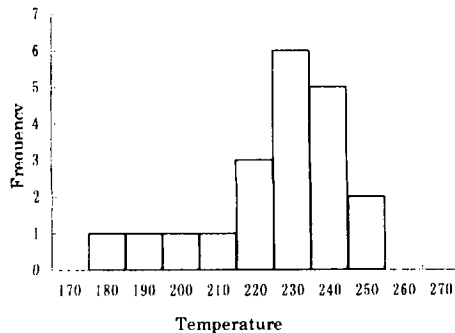
Sample A00TM109

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	17.5	15	po	183	-4.2	6.74
2	Quartz	32.5	17	po	256	-4.3	6.88
3	Quartz	30.0	15	irr	247	-5.1	8.00
4	Quartz	10.0	13	po	218	-4.6	7.31
5	Quartz	10.0	15	po	233	-	-
6	Quartz	5.0	12	po	244	-	-
7	Quartz	27.5	15	irr	245	-4.0	6.45
8	Quartz	12.5	13	po	225	-4.5	7.17
9	Quartz	7.5	12	po	198	-	-
10	Quartz	10.0	13	wg	238	-4.6	7.31
11	Quartz	17.5	17	irr	220	-5.5	8.55
12	Quartz	12.5	15	po	235	-4.3	6.88
13	Quartz	7.5	13	po	204	-	-
14	Quartz	30.0	20	irr	233	-4.5	7.17
15	Quartz	15.0	17	irr	248	-4.2	6.74
16	Quartz	7.5	20	sq	255	-	-
17	Quartz	12.5	17	irr	229	-3.8	6.16
18	Quartz	10.0	13	po	235	-4.5	7.17
19	Quartz	7.5	15	po	241	-4.0	6.45
20	Quartz	12.5	15	irr	238	-4.1	6.59

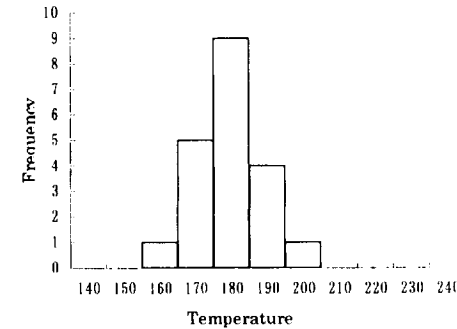
Homogenization temperature and salinity of fluid inclusions of quartz samples (18/19)

Sample A00TM112

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature (°C)	Melting Temperature (°C)	NaCl Wt (%)
1	Quartz	22.5	12	irr	186	-6.4	9.73
2	Quartz	10.0	12	po	195	-4.5	7.17
3	Quartz	15.0	10	irr	188	-6.8	10.24
4	Quartz	7.5	10	po	190	-	-
5	Quartz	22.5	12	irr	185	-6.5	9.86
6	Quartz	17.5	10	irr	177	-4.2	6.74
7	Quartz	32.5	10	irr	172	-6.2	9.47
8	Quartz	25.0	12	irr	188	-6.6	9.98
9	Quartz	12.5	13	wg	195	-4.7	7.45
10	Quartz	7.5	12	po	203	-	-
11	Quartz	10.0	10	po	173	-4.3	6.88
12	Quartz	10.0	10	irr	181	-5.8	8.95
13	Quartz	20.0	10	irr	188	-4.3	6.88
14	Quartz	22.5	12	irr	188	-4.4	7.02
15	Quartz	15.0	13	po	193	-6.8	10.24
16	Quartz	10.0	10	po	171	-4.6	7.31
17	Quartz	7.5	10	po	185	-	-
18	Quartz	12.5	10	irr	163	-7.1	10.61
19	Quartz	10.0	12	wg	185	-4.2	6.74
20	Quartz	7.5	10	po	172	-	-



Mineral Quartz
 Inclusions 20
 Maximum 256 °C
 Minimum 183 °C
 Average 231.3 °C
 deviation 18.4



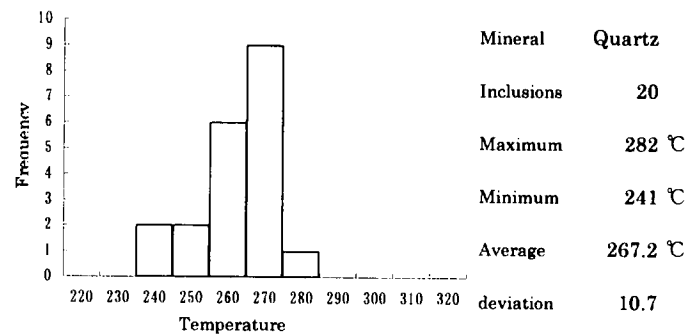
Mineral Quartz
 Inclusions 20.0
 Maximum 203.0 °C
 Minimum 163.0 °C
 Average 183.9 °C
 deviation 9.7

Appendix-11

Homogenization temperatura and salinity of fluid inclusions of quartz samples (19/19)

Sample A00TM119

No.	Mineral	Size (μm)	Volume ratio (%)	Form	Temperature ($^{\circ}\text{C}$)	Melting Temperature ($^{\circ}\text{C}$)	NaCl Wt (%)
1	Quartz	25.0	17	irr	273	-3.6	5.86
2	Quartz	12.5	15	po	275	-3.4	5.56
3	Quartz	7.5	13	sq	265	-3.6	5.86
4	Quartz	25.0	15	irr	261	-4.8	7.59
5	Quartz	17.5	15	po	274	-3.6	5.86
6	Quartz	7.5	12	sq	273	-	-
7	Quartz	20.0	13	irr	243	-3.7	6.01
8	Quartz	17.5	13	po	264	-4.0	6.45
9	Quartz	7.5	15	po	278	-	-
10	Quartz	22.5	15	irr	258	-3.5	5.71
11	Quartz	12.5	13	po	257	-3.6	5.86
12	Quartz	10.0	17	wg	282	-3.6	5.86
13	Quartz	10.0	13	po	268	-3.8	6.16
14	Quartz	7.5	12	po	265	-	-
15	Quartz	32.5	15	irr	272	-3.2	5.26
16	Quartz	17.5	13	irr	275	-3.6	5.86
17	Quartz	5.0	12	po	241	-	-
18	Quartz	12.5	15	po	278	-3.8	6.16
19	Quartz	7.5	15	po	275	-4.0	6.45
20	Quartz	12.5	12	irr	266	-3.5	5.71



Legend of Form

eg:egg shape; irr:irregular; po:polygon; sq:square; tr:triangle; tu:tube; wg:wedge shape