Appendix 2

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
El Potro				
El Potro	ASM212	qz. vein	coarse grained vuggy qz. vein, w/ kaolinitized dacite including qz. stockwork veinlet of 1mm width	OF
El Potro	ASM213	silicified porphyry	py. disseminated intensely silicified porphyry w/ qz. veinlet	O
El Potro	ASM214	qz. vein	gray coarse grained qz. vein of 2cm width, w/o sulfide	OF
El Potro	ASM215	silicified diorite	green Cu stained silicified fine grained diorite	O
El Potro	ASM216	qz. vein	gray coarse grained qz. vein of 4cm width	F
El Potro	ATH228	granite	biot. granite, very coarse grained, Choiyoi group, float	T
El Potro	ATH229	granite	fine - medium grained granite, sericite - kaolinite alteration, silicified, float	GX
El Potro	ATH230	silicified granite	silicified fine - medium grained granite, stockwork fracture w/ silicified halo, kaolinite alteration, jarosite stain	GX
El Potro	ATH231	silicified granite	silicified fine - medium grained granite, w/ qz. stockwork veinlet, jarosite stain	GXF
El Potro	ATH232	granite	reddish color, fine - medium grained granite , potassic alteration, sericite alteration (?), magnetite (replaced by hematite) disseminates along crack	GXDT
El Potro	ATH233	granite	silicified fine - medium grained granite, w/ qz. stockwork veinlet, jarosite stain, kaolinite alteration	GX
El Potro	ATH234	qz. vein	qz. vein in fine to medium grained granite, float	G
El Potro	ATH235	silicified rhyolite	strongly silicified, w/ qz. stockwork veinlet, jarosite	GT
El Potro	ATH236	altered granite	fine to medium grained, w/ qz. stockwork veinlet, white clay - kaolinite (? originally sericite)	GT
El Potro	ATH237	dacite	intrusive (?), qz. phenocryst, silicified, w/ qz. stockwork veinlet, jarosite stain	GT
El Potro	ATH238	granite	fine to medium grained, w/ qz. stockwork veinlet, K-silicate alteration (K-feldsper), sericite overprinting	GTF
El Potro	ATH239	porphyry	qz. - K-feldsper stockwork veinlet, w/ secondary biot., K-silicate alteration	GXT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
El Potro	ATH240	Cu-Oxide	malachite (?) stained on fine to medium grained granite which altered to K-silicate	OX
El Potro	ATH241	granite	fine to medium grained granite, K-silicate alteration overprinted by qz.+sericite, molybdenite within qz. vein	GXP
El Potro	ATH242	granite	very coarse grained Choiyoi group granite, white clay alteration, sericite overprint, py. dissemination, hematite	GX
El Potro	ATH243	granite	fine to medium grained granite, reddish color K-feldsper, pale greenish white color altered phenocryst (K-feldsper ?) , pale greenish white color vein, float	XT
El Potro	ATH244	granite	propytitic alteration (epidote, chlorite) w/ some remaining biot , pinkeich Kf (?)	WDT
Criollita				
Criollita	AKY350	Qtz vein? chert?	N40E90, with breccia within limestone, 6m in width of Qtz-breccia zone	G
Criollita	AKY351	Mag-Epi skarn		GP
Criollita	ATH409	skarn	grandite garnet? or epidote?	T
Criollita	ATH410	skarnized schist	oxide green Cu minerals stained. with magnetite	GP
Criollita	ATH411	magnetite skarn	massive magnetite with oxide Cu minerals	G
Criollita	ATH412	monzonite?	Hb?Ichikwite, Bi monzonite?. Pl>Kf>Qtz. medium grained. magnetite series.	WT
Criollita (2nd site)	ASM365	magnetite-epidote skarn	green Cu diss, heavy, from old adit	OX
Criollita (2nd site)	ASM366	granite	qz-Kf-pl-biot, biot very partly replaced by chl, float	DT
Criollita (2nd site)	ASM367	silicified limestone	white to light gray, w/o sulfides visible, float	G
Criollita (2nd site)	ASM368	qz. vein	subtle limonite diss along fracture, N30E 40E, w/o sulfides visible, white to light gray	G
Criollita (2nd site)	ASM369	brecciated silicified limestone	intensely silicified, ledge of 1.5m wd N20E, matrix porous, limo stained	G
Criollita (first site)	ASM361	meta calcareous mudstone (MCM)	finely banded, white to dark gray, green Cu stained, float	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Criollita (first site)	ASM362	hematite enriched horizon in MCM	reddish, hematitized part in ASM364, from old working, calcite veinlet < 1mm	GX
Criollita (first site)	ASM363	epidote skarn	green Cu stained, float	G
Criollita (first site)	ASM364	meta calcareous mudstone	dark gray, fine grained micaceous, subtle green Cu stained	XT
Rio Blanco				
Rio Blanco	ASM217	rhyodacite	qz. - sericite altered reddish rhyodacite, w/o sulfide	X
Rio Blanco	ASM218	silicified rock	intensely silicified andesite (possibly), consists of 90% a coarse grained qz., w/ jarosite - hematite stain, float	O
Rio Blanco	ASM219	qz. vein	white coarse grained qz. vein in intensely silicified rock, float	OF
Rio Blanco	ASM220	qz. vein	dark gray qz. vein of 2-3cm width, in intensely silicified andesite (possibly), w/o sulfide	OF
Rio Blanco	ATH245	pyroclastic rock (?)	weakly silicified, kaolinite alteration	GX
Rio Blanco	ATH246	welded tuff	weakly silicified, kaolinite alteration	GX
Rio Blanco	ATH247	silicified vein	50-100 cm width, N50E trend	GX
Rio Blanco	ATH248	welded tuff	weakly silicified, kaolinite + smectite (?) alteration	GXT
Rio Blanco	ATH249	dacite	weakly kaolinite alteration, w/ remaining primary biot.	XT
La Vicunita				
La Vicunita	ASM209	argillized andesite	greenish sericitized andesite	X
La Vicunita	ASM210	argillized silicified andesite	gray white weak silicified, possibly sericitized andesite	X
La Vicunita	ASM211	dacitic tuff	qz. - sericite altered tuff including 1cm rounded siliceous fragment	XT
La Vicunita	ATH219	andesite	propylytic altered, mafic minerals break down to epidote + chlorite	XWT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
La Vicunita	ATH220	qz. vein	within the ATH219 andesite w/ oxidated Cu minerals of brochantite and acanticite	O
La Vicunita	ATH221	silicified dacite	medium - strongly silicified, plagioclase phenocryst breaks down to kaolinite, intrusive	GX
La Vicunita	ATH222	dacite	weak smectite and kaolinite alteration, distinguishing mafic phenocryst	GX
La Vicunita	ATH223	tuff - lapilli tuff	pale green propylitic alteration, smectite chlorite (?)	X
La Vicunita	ATH224	dacite	intrusive, mediumly silicified, sericite	G
La Vicunita	ATH225	pyroclastics	mediumly - strongly silicified white clay (sericite)	G
La Vicunita	ATH226	goethite	developped within the boundary between dacite and pyroclastics, w/o Cu showing	GX
La Vicunita	ATH227	pyroclastics	strongly silicified, partly vuggy, w/ sericite	GX
La Ollita				
La Ollita	ASM201	qz. vein	coarse grained qz. v., 2cm width, sheared	O
La Ollita	ASM202	argillized andesite	gray arg. and. w/ limo.-qz. network	O
La Ollita	ASM203	argillized andesite	kaolinitized andesite	X
La Ollita	ASM204	qz. - limo. vein	qz. - limonite veinlet, 2cm width	O
La Ollita	ASM205	argillized andesite	intensely kaolinitized andesite	X
La Ollita	ASM206	qz. vein	blackish limonite thickly stained coarse grained qz. vein, float	O
La Ollita	ASM207	qz. vein	coarse grained qz. vein, porous, sheared, float	O
La Ollita	ATH201	aluminium sulfate hydrate	white, vein like form, 2cm, powderly, supergene product	R
La Ollita	ATH202	silicified rock	originally dacite (?), onidium silicified, white - yellowish color, jarosite stained kaolinite - alunite alteration	GX

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
La Ollita	ATH203	silicified rock	originally dacite (?), w/ medium - strong silicified fragment	GX
La Ollita	ATH204	silicified rock	float	G
La Ollita	ATH205	altered dacite	fine grained dacite, w/ kaolinite, jarosite	GXT
La Ollita	ATH206	goethite vein	2 -3cm width, N70E dipping 42N, supergene goethite	GX
La Ollita	ATH207	pyroclastic rock	tuff breccia - lapilli tuff, pale green color, propyrytic alteration, w/ chlorite smectite and epidote	X
La Ollita	ATH208	qz. vein	3cm width, coarse grained, jarosite stained, float	GF
La Ollita	ATH209	qz. vein	jarosite stained qz. vein of 3 -5 cm width, within dacite	G
La Ollita	ATH210	altered andesite	py. disseminated, pale green gray, jarosite stained	GXP
La Ollita	ATH211	altered dacite	white colored altered, plagioclase phenocryst altered to alunite (?)	GX
La Ollita	ATH212	qz. vein clast	qz. vein clast within a gouge of thrust (shear zone)	GF
Las Tamberias				
Las Tamberias	ASM208	clay vein	kaolinite clay vein, 50 cm w d , N30E dipping 65E	O
Las Tamberias	ATH213	altered dacite	white - yellowish brown colored alteration, kaolinite + smectite (?), jarosite stained	GX
Las Tamberias	ATH214	silicified rock	weakly silicified, kaolinite alteration, jarosite stained, forming like a ledge	GX
Las Tamberias	ATH215	hornblende biotite dacite	Hbc altered, Biot: weakly altered to greenish color, host rock of alteration	T
Las Tamberias	ATH216	qz. vein	2cm width, jarosite stained, float	G
Las Tamberias	ATH217	stibnite vein	vein like form supergene alunite (?), within least altered Hb-Biot dacite	R
Las Tamberias	ATH218	silicified rock	ledge continued from ATH214, jarosite + qz. veinlet network	GX

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Pastos Largos				
Pastos Largos	AKY354	Qtz stockworked silicified rock	including brecciated fragment of Qtz-Cal vein, Qtz etc, from beside of Cal vein in N22W65W, 20cm in width	G
Pastos Largos	AKY355	Qtz stockworked granite	silicified and Kfs altered, 2m apart from AKY354	G
Pastos Largos	AKY356	Qtz-Spc vein	chaotic and multiple networked, with Chl clot	G
Pastos Largos	ASM374	qz.- calcite breccia	silica clast supported by calcite, float	G
Pastos Largos	ASM375	qz. vein	fine grained granite w/ qz. vein of 2cm wd., qz: coarce grained, drusy, clear, w/o sulfides, no limo. stain, float	G
Pastos Largos	ASM376	calcite vein	fine grained granite w/ cc vein, cc: coarce grained, w/o sulfides, float	G
Pastos Largos	ASM377	qz. vein	granite w/ qz. vein, Hm impregnation as 5mm aggregate, qz: c g., drusy, clear to white, float	G
Pastos Largos	ASM378	qz. vein	outcrop, 1 2m wd., N-S -90, qz: c g., drusy, partly comb texture	G
Pastos Largos	ATH419	porphyry	dike. w=6m. N30W trend. the same as the porphyry at Ranchillos	T
Pastos Largos	ATH420	quartz+calcite vein	float. quartz +calcite vein. partly brecciated	GF
Pastos Largos	ATH421	quartz vein	in aplitic grainte (ATH422). w=1.5-2cm. with chalcopyrite. N60W trend	GPF
Pastos Largos	ATH422	aplitic rock	host rock of Qtz vein (ATH421). fine grained. pinkish color	T
Ranchillos				
Ranchillos	AKY352a	Qtz veinlet	0.5cm in width, floating rock	F
Ranchillos	AKY352b	altered hornfelse with Qtz-Lim vein	2cm in width of Qtz-Lim vein within white grey colored altered hornfelse, floating rock	G
Ranchillos	AKY352c	altered hornfelse with Lim vein	0.2cm in width of Lim vein within white grey colored altered hornfelse, floating rock	G
Ranchillos	AKY353a	altered granite porphyry	light grey colored Qtz-Ser altered granite porphyry	T

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Ranchillos	AKY353b	Tor Qtz vein	2cm in width, brownish colored Tor fills Qtz grain	GPF
Ranchillos	ASM370	limonitized sulfide vein	slightly silicified and sericitized sandstone (+/- hornfels) w/ densely limonitized vein, network, heavy	G
Ranchillos	ASM371	altered granite	granodiorite ?, silicified, sericitized	G
Ranchillos	ASM372	altered granite	intensely silicified and sericitized, porous (pl leached cavity)	DT
Ranchillos	ASM373	altered sandstone	(+/- hornfels), sericitized w/ limonitized sulfide vein and dense limonite (jarosite) stain	G
Ranchillos	ATH413	altered hornfels	cordierite? hornfels, sericite alteration?coarse grained white mica: products of contact metamorphism?	GXT
Ranchillos	ATH414	granitic rock	dike, mafic minerals* chlorite alt?	T
Ranchillos	ATH415	granitic rock	white clay alteration: sericite alteration	X
Ranchillos	ATH416	monzonite?	no alteration. Qtz poor "monzonite? fine grained. Tertiary intrusion?	WDT
Ranchillos	ATH417	porphyry	float. sericite alteration. Qtz Fd phyric.	XT
Ranchillos	ATH418	granodiorite?	Bt Hbl granodiorite? medium-coarse grained. Bt max/~8mm. magnetite series	WDT
Laguna de las Huaycas				
Lagna de las Huaycas	ASM382	altered rhyolitic tuff + silicified limestone (?)	rhyolitic tuff + densely silicified vuggy quartz w/ graphical cavity: rhy: qz pc 1mm, gray; silt n dense limo stain, probably py+calcite leached cavity (silicified limestone)	GX
Lagna de las Huaycas	ASM383	qz. diorite	gray greenish, qz Hb bearing, including blackish sedimentary fragments, least altered	T
Laguna de las Huaycas	AKY361	Qtz vein	N30E30NW, less than 1cm in width, lenticular, mosaic of different colored Qtz grains (white and clear) within rhyolite	GF
North of Laguna de las Huaycas	ATH430	porphyry	Qtz, Fd phyric. same as ATH428. porphyry intrudes into rhyolite (ATH429)	
North of Laguna de las Huaycas	ATH431	rhyolite?	white color veinlet. low temperature silica or alunite vein? if alunite, the alunite could be supergene	GX
North of Laguna de las Huaycas	ATH432	welded tuff	white color veinlet. low temperature silica vein? but not harder than cutter knife.	GXT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
North of Laguna de las Huaycas	ATH433	pseudomorph of minerals	columnar + acicular shape. monoclinic? sulfate or carbonate?	X
North of Laguna de las Huaycas	ATH434	hematite veinlet	hematite veinlet in silicified welded tuff	G
North of Laguna de las Huaycas	ATH435	zeolite?	adjacent to ATH436, soft and fine crystalline veiniform minerals. no bubbling with HCl. clinoptilolite?	X
North of Laguna de las Huaycas	ATH436	silicified welded tuff	black color band: hematite. N30E	GX
Las Aguaditas				
Agualitas	ATH401	tourmaline rock	vein or dike?	T
Agualitas	ATH402	tourmaline rock	feldspar, quartz associate. feldspar altered to sericite.	X
Agualitas	ATH403	tourmaline + quartz vein	tourmaline with sugary grained quartz	
Agualitas	ATH404	altered rock	white color: sericite alteration? kaolinite vein in crack. kaolinite seems to be supergene products.	GX
Agualitas	ATH405	diorite	fine grained. Bt Hbl diorite. constitutes Cerro Negro. host rock of tourmaline vein/dike	WT
Agualitas	ATH406	tourmaline rock	floats.	
Las Aguaditas	ASM356	altered granodiorite	gd altered to tourmaline-biot-qz rock, fine grained, slightly porous, massive, Black appearance, ledge elongating N60W pararell to joint	GXT
Las Aguaditas	ASM357	limonite-qz. vein	N60W 90, 10cm+/- wd., pararell to ledge, porous (pytite leached cavity)	O
Las Agualitas	AKY339	Bt-Qtz-To breccia	N70E to N80E in strike, dip vertical, several meters in width	GP
Helvecia				
Helvecia	TH07	marmatite-barite ore (replaced)	taken from underground, Sp-Gn, Sp has greenish and yellowish color, dark gray colored brecciated limestone is replaced by Sp w/ Brt matrix	OXP
Helvecia	TH08	barite-marmatite ore (vein)	taken from underground, Brt-vein has Sp	R
Helvecia	TH09	limestone	taken from underground, massive, no brecciation, very fine grained *Py* disseminates	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Helvecia	TH10	brecciated limestone	taken from underground, yellowish Sp in replaced limestone breccia in part	R
Helvecia	TH11	brecciated limestone	taken from underground, black-dark gray colored limestone breccia w/ very fine grained Py	G
Helvecia	TH12	oxidized ore	sampled on the surface, Gn-Cerussite?-white colored Pb-Zn oxide?, w/ Bn	OP
Las Sapitos				
Las Sapitos	SM02	altered andesite	argillitic altered, reddish white	GX
Las Sapitos	SM03	altered mudstone	argillitic altered, pale green	GX
La Flecha				
La Flecha	ATH437	ductile rock?	altitude=4540m. silicified. bleaching. shearing: N75E trend. within propylitic andesite. intercalated with andesite? or dike?	GX
La Flecha	ATH438	pyroclastic rock	altitude=4565m. white color rounded clasts: replaced by alunite? distribution trend: EW	GXDT
La Flecha	ATH439	silicified rock	altitude=4690m. highly silicified. brecciated. pyrite dissemination	GXF
La Flecha	ATH440	silicified rock	altitude=4735m. bleached. alunite? jarosite stained	GX
La Flecha	ATH441	pyroclastic rock	silicified. alunite alteration: white color rounded clasts are replaced by alunite. altitude=4730m	GXO
La Flecha	ATH442	vuggy silica	altitude=4730m. acicular black minerals: very fine gr. black minerals assemblages	GP
La Flecha	ATH443	silicified rock	altitude=4750m. highly silicified. vuggy. alunite? secondary kaolinite	GX
La Flecha	ATH444	secondary clay	include oxide Cu minerals	GX
La Flecha	ATH445	pyrophyllite or gypsum?	very soft. silky shine. fibrous. radiational. tastes sour and salty.	X
La Flecha	ATH446	native sulfur	secondary products	
Rio la Flecha	AKY362	silica vein	N30E80W to 80W, less than 5cm in width, white colored within 60cm in width of shear zone in propyritic altered (Epi) andesite, Gyp showing	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Rio la Flecha	AKY363	silicified breccia	EW74N, white colored argillic fragments in silicified matrix, matrix supported, after tuff breccia(?) hydrothermal(?), supergene Gyp-Alu overprint	GT
Rio la Flecha	AKY364	silicified breccia	white colored argillic (Alu?) patch in silicified matrix, Py diss 2%	GX
Rio la Flecha	AKY365	andesite	silicified, fine grained Py diss 10%	G
Rio la Flecha	AKY366	silicified breccia	highly silicified breccia with Py diss 10% within propyritic altered andesite	GR
Rio la Flecha	AKY367	silicified breccia	N80W45N, after tuff breccia(?) or hydrothermal breccia(?), 5m thickness, occurrence of native sulfer	GR
Rio la Flecha	AKY368	silica vein	N45W75NE, 7cm in width of silica layer widthin breccia, 3m width or thickness	GR
Rio la Flecha	ASM384	andesitic volcanic breccia	pl pc abundant, propyrite alt., pl partly replaced by epidote	R
Rio la Flecha	ASM385	altered tuff breccia	intensely silicified, ledge of 50cm wd., original texture unknown, sparsely pyrite diss., supergene gypsum	GX
Rio la Flecha	ASM386	altered tuff breccia	silicified, limonitization along fracture, py leached cavity, subtle py remaining, very f.g. alunite, gypsum rich	GX
Rio la Flecha	ASM387	altered tuff breccia + qz vein	silicified, porous, qz: c.g., gray	GX
Rio la Flecha	ASM388	silicified rock	intensely leached sil. r., rb clast totally leached, vuggy	GXR
Rio la Flecha	ASM389	silicified argillized rock	ledge, N80E 75N, densely alunitized (very fine grained), pinkish to white appearance,	GX
Rio la Flecha	ASM390	qz. vein	1cm wd., qz: c.g. clear, w/o sulfides, porous, float	G
Bordo Atravezado				
Bordo Atravezado	ASM221	silicified rock	gray white silicified rock (possibly andesite)	O
Bordo Atravezado	ASM222	limonite vein	massive limonite vein of 20cm width, consists of gehtite + jarosite	O
Bordo Atravezado	ASM223	silicified sandstone	intensely silicified arenite, w/ qz. veinlet of 0.5mm width, limonite stain, possibly accompanying alunite.	X
Bordo Atravezado	ASM224a	silicified rock	very intensely silicified rock, massive silica appearance, w/ jarosite - hematite fissure filling	O

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Bordo Atravezado	ATH251	dacitic pyroclastics	weak - moderate silicification, kaolinite alteration, float, outer zone of Bord Atravezado	GX
Bordo Atravezado	ATH252	dacite	intruded into weak silicified Carboniferous sediments, kaolinite alteration	GX
Bordo Atravezado	ATH253	dacite	moderately to strongly silicification, w/ qz. veinlet stockwork (1mm < width), intruded into Carboniferous sediments	GX
Bordo Atravezado	ATH254	hydrothermal breccia	strongly silicified clasts of 0.2mm to 10cm, coated by jarosite-goethite stain	GX
Bordo Atravezado	ATH255	?	dyke, reddish brown, hematite alteration, fine grained, N30W trend	GT
Bordo Atravezado	ATH256	dacite	strongly silicified, fracture stockwork w/ silicified halo of 6 to 10mm width, white clay: kaolinite (?), pinkish: alunite	GX
Bordo Atravezado	ATH257	drilling sludge	pale green drilling sludge by Minera Macha muerto, abundant py. and qz.	GX
Bordo Atravezado East	AKY370	hydrothermal breccia	Gt cements silicified fragments after dacite or andesite(?), with occurrence of Bat(?)-Jar-Hem(indigeneous)-Gt clast	GX
Bordo Atravezado East	ASM391	brecciated dacite	silicified and sericitized dacite, breccia matrix cemented by Hm + qz., heavy	G
Bordo Atravezado West	AKY369	silicified rhyolite	intensly silicified, very fine grained Mag diss, Epi Chl Pmp alteration, host body of Qtz-rhyo-dacite dike	GT
South of Bord Atravesado	ATH449	silicified rock	Qtz-sericite alteration, goethite stained, Qtz veinlet stockwork	GXF
South of Bord Atravesado	ATH450	silicified rock	along crack, secondary alunite?	X
West of Bord Atravesado	ATH447	silicified rock	dacite - rhyolite rock, mafic ~chlorite alteration?	GX
West of Bord Atravesado	ATH448	silicified rock	Qtz phyric, dacite - rhyolite, bleaching silicified, secondary kaolinite.	GX
Margarita				
Margarita	AKY357	hydrothermal breccia	Tor-Qtz vein, silicified angular frgments in Jar-Hem cement matrix, indigeneous-Hem after primary Cu-sulphide (?) in places	G
Margarita	AKY358	Qtz vein	5cm in width, intersects Tor-Qtz breccia to stockwork, Ma-Cyanotrichite stain occures in brecciated rim of Qtz vein	GFR
Margarita	ASM379	tourmaline breccia	silica clast of 2-3cm supported by f.g. tourmaline	GT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Margarita	ATH423	tourmaline breccia	tourmaline replaced sediments?	
Margarita	ATH424	oxide Cu stained tourmaline breccia.	tourmaline breccia. Qtz vein with oxide Cu minerals brochantite?	G
West of camp of Cajon de la Brea	ATH456	propylitic	with calcite+gypsum? vein. gypsum?: softer than nail but tabular, transparent. mafic minerals: chlorite+epidote alteration	GX
West of camp of Cajon de la Brea	ATH457	kaolinite vein?	drain back products? along crack of ATH456	X
Los Mogotes				
Los Mogotes	ASM228	altered tuff breccia	qz. - sericite - pyrite altered tuff breccia, w/ py. dissemination, float	O
Los Mogotes	ASM229	silicified breccia	2 - 5cm silicified fragment cemented by coarse grained qz. and native sulfur, w/ black limonite stain	O
Los Mogotes	ASM230	qz. vein (Mo ore)	dark gray coarse grained qz. vein, w/ molybdenite impregnation, float	F
Los Mogotes	ATH267	qz. veinlet	dacite (or granodiorite ?), qz. veinlet stockwork w/ py., molybdenite(?)	OXP
Los Mogotes	ATH268	andesite or granodiorite	plagioclase phenocryst recrystallize to fine grained alunite, w/ py. dissemination, qz. veinlet stockwork	GXT
Los Mogotes	ATH269	qz. vein	6 - 40cm width, N45W dipping 65W, coarse grained high-T qz., alunite abundant along the contact to host, native sulfur occurs in porous part.	GF
Los Mogotes	ATH270	alunite	adjacent portion to qz. vein, white to cream euhedral powderly sericite, a few gypsum, alunite	D
Los Mogotes	ATH271	granodiorite (?)	biot. - hb. granite	WT
Los Mogotes	ATH272	alunite vein	veining in the ATH271 granodiorite	GX
Los Mogotes	ATH273	altered granite	alunite- kaolinite alteration halo of the ATH272 alunite vein	GX
Los Mogotes	ATH274	dacite (?)	moderately silicified, hematite (originally jarosite) stained, white clay: kaolinite + alunite	GX
Los Mogotes	ATH275	dacite (?)	qz. veinlet stockwork, moderately- strongly silicification, qz.-alunite alteration	GX
Los Mogotes	ATH276	dacitic pyroclastics	silicified, py. crystal in vug, qz.-sericite alteration	GXT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Los Mogotes	ATH277	dacite (?)	qz. veinlet stockwork, plagioclase phenocryst alters to alunite + kaolinite	GXT
Los Mogotes	ATH278	dacite	biot.-hb. dacite, relatively fresh, hb: partly chloritized	XWDT
Los Mogotes	ATH279	rhyolite	dyke (?), float, K-feldspar phenocryst, silica+epidote alteration, Mn oxide stained	XT
Los Mogotes	ATH280	andesite	dyke (?), float, w/ epidote	XT
Cordon de la Inca				
Cordon de la Inca	AKY371	andesite	pale gray colored moderately silicified andesite, Ot stain in places	
Cordon de la Inca	AKY372	Qtz vein	N30W80W, more than 20cm width, Qtz-brecciate Qtz- Qtz stockwork within andesite like AKY371	G
Cordon de la Inca	AKY373	silicified rock	white colored silicified rock after andesite(??) with Qtz stockwork without sulfide	G
Cordon del Inca	ASM392	silicified rock	gray, intensely silicified rock, w/o sulfides, porous, float	GX
Cordon del Inca	ASM393	altered dacite	silicified, limonitized along fracture, gypsum covered	G
Cordon del Inca	ASM394	qz. vein	brecciated tex., qz: f.g., milky, w/o sulfides, 1.5cm wd., float	G
Cordon del Inca	ASM395	hydrothermal breccia	breccia including qz. vein fragments, silica clast, w/ limo. abundant matrix	GX
Easternmost of Cordon de la Inca	ATH451	silicified rock	bleached rhyolite - dacite. Fd pale pinkish- white color. alunite alteration. hypogene alunite.	GXDT
Easternmost of Cordon de la Inca	ATH452	silicified rock	highly silicified. grayish color. near peak.	GX
Easternmost of Cordon de la Inca	ATH453	argillized rock	bleached. hematite stained. pyroclastics. near peak.	GX
Easternmost of Cordon de la Inca	ATH454	silicified rock	at the peak. reddish brown in color. highly silicified. altitude=4440m.	G
Easternmost of Cordon de la Inca	ATH455	kaolinite vein	supergene kaolinite vein. w=3-15cm	X

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Abundancia				
Abundancia	KY36	Qtz-diorite	Hbl-Bt-Qtz diorite w/ ambiguous Qtz network showing	G
Abundancia	KY37	Qtz-diorite	Hbl-Bt-Qtz diorite w/ ambiguous Mag-Qtz-network showing	G
Abundancia	KY38	crystaline limestone	blakish grey massive medium grained crystaline limestone w/ white colored ambiguous minor layer, taken from waste dump	G
Abundancia	KY39	wastes	skarn	R
Abundancia	SM35	dacite porphyry	dacite porphyry w/Qtz-Py-Mag veinlet	O
Abundancia	SM36	skarn	Msc-Ep-Chl skarn, float	O
Abundancia	SM37	mudstone	black mudstone w/ white Qtz-vein in5mm width, fine grained Py diss,float	O
Abundancia	SM38	mudstone	black to dark grey calcic mudstone, float	O
Abundancia	SM39	Cu-ore	grey white marble w/ Ma diss, float	O
Abundancia	SM40	Cu-ore	grey white silica vein w/ Crs diss, float	O
Abundancia	TH53	Qtz vein	in granodiorite porhyry, 3cm in width, N55W in strike, 78S in dip	G
Abundancia	TH54	granodiorite porphyry	Hbl-Bt granodiorite porphyry, mafic: Hbl-Bt, felsic: Pl-Qtz-Kfs?, Qtz:4 to 10mm in diameter, rounde to subrounded shape	WDT
Abundancia	TH55	granodiorite porphyry	(Bt)-Hbl granodiorite porphyry	WT
Abundancia	TH56	garnet skarn	reddish brown garnet skarn, in old adit	T
Abundancia	TH57	garnet skarn	reddish brown garnet skarn, Qtz veinlet	GP
Abundancia	TH58	green Cu	green Cu minerals w/ Mag ore	O
Abundancia	TH59	magnetite	banded Mag ore	P

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Abundancia	TH06	Qtz Py-Hem ore	2 to 5mm in diameter Py w/ Qtz vein	G
Guachi				
Guachi	KY31	diorite	propyritic altered diorite, Chl from Hbl, Py veinlet showing, contains gabbroic inclusion	GT
Guachi	KY32	dioritic igneous breccia	dioritic matrix igneous breccia w/ 1% of Py-diss, gabbro as breccia	G
Guachi	KY33	silicified rock	pale white colored strong silicified rock w/ Py-diss and Qtz Py-network 1 to 0.2 cm in width and less than 5cm in spacing, dike-like (N84W in strike)	G
Guachi	KY34	silicified argillic rock	pale white strong silicified argillic rock w/ 20% of Py-diss and layered white Qtz vein network 2 to 3cm in width	GF
Guachi	KY35	andesite (dike)	weak dark grey colored phanerritic andesite (dike?) w/ fine grained Py-diss in groundmass	GT
Guachi	SM32	vein	Py-Qtz vein 4cm width, fault in Chl Hbl gabbro	O
Guachi	SM33	vein	Qtz Py-vein 5cm width, coarse grained, rimb of SM34	O
Guachi	SM34	vein (Pb-Zn-Cu-Au ore)	Gn-Sp-(Cpy*)-Py-Qtz vein in 15cm width, ore grade	OL
Guachi	TH48	Py vein	Py-white Clay (Kln*) vein, 30cm in width, N42W in strike, 80N in dip, with in a fault	GX
Guachi	TH49	silicified rock	originary felsic dyke, Py dissemination, M-silicification	OX
Guachi	TH50	Qtz vein	10cm in width, N42W trending, contains Cp-Sp-Py	OLF
Guachi	TH51	Qtz-Py vein	3 to 20 cm in width, N85E in strike, 80N in dip	O
Guachi	TH52	silicified rock	float*, Bio?-Cp, silicified andesite?	OP
El Fierro Bajo				
El Fierro Bajo	KY22	actinolite-hornfels	pale grey least altered, N65E in strike and 80SW in dip of foliation	T
El Fierro Bajo	KY23	Sp-Qtz vein (ore)	massive Sp-Qtz vein	R

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
El Fierro Bajo	SM27	vein (Pb-Zn ore)	massive Sp-Gn ore, coarse grained, float	L
El Fierro Bajo	TH37	granite porphyry	Pl:2 to 3 cm in diameter, Qtz:2 to 3mm in diameter, Bt:1 to 3mm in diameter, Pl-phyric porphyry, dyke oy stock occurrence, no alteration, Tertiary	WDT
El Fierro Bajo	TH38	granite	coarse grained, Pl-Qtz-Kfs-Bt granite, no alteration, Permian?	WDT
El Fierro Bajo	TH39	Sp ore	host rock: Carboniferous metasediments, black colored	R
El Fierro alteration				
El Fierro alteration	KY24	argillic altered granite	pale white argillic altered granite, Qtz vein 0.5mm in width w/ clay-halo showing	GX
El Fierro alteration	KY25	argillic altered granite	pale white argillic altered granite, Qtz vein 0.5mm in width w/ clay-halo and Tor-Qtz vein showing	G
El Fierro alteration	KY26	Tour-Qtz breccia	argillic or silicified rock as fragment in Qtz-Tor matrix	R
El Fierro alteration	KY27	silicified rock (granite?)	weak purplish colored strong silicified rock (granite?) w/ 3 to 5% of Py diss	G
El Fierro alteration	KY28	Tor-breccia	argillic or silicified rock (most likery granite) as fragment in fine grained (Qtz-?)Tor matrix	GP
El Fierro alteration	KY29	sandstone	weak bluish green argillic altered fine grained sandstone w/ fine grained Py diss weak	GX
El Fierro alteration	KY30	silicified granite	pale grey moderatly silicified granite w/ less than 1% of Py, immediatey above limonitized breccia zone	G
El Fierro alteration	SM28	silicified rock	grey white silicified rock w/ Qtz veinlet (2mm in width), Cal-Mse-Tor spot	O
El Fierro alteration	SM29	altered granite	grey white granite w/ Tor-veinlet 4mm in width, biot leached out	O
El Fierro alteration	SM30	altered granite	grey white granite w/ Tor, biot leached out, w/ Qtz vein 5mm in width by 2	OT
El Fierro alteration	SM31	limonitized fault breccia	intensly limonitized fault breccia w/ Silicified granite fragment	O
El Fierro alteration	TH40	granite	coarse grained, Qtz vein network, Qtz-Ser alteration, Mse along Qtz vein	GXT
El Fierro alteration	TH41	Qtz-Tour? Vein	1 to 1.5 cm in width, Py exist in the center of vein	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
El Fierro alteration	TH42	porphyry	Qtz veiled network, less than 1mm in width, Qtz-Ser alteration, Lm stained	G
El Fierro alteration	TH43	porphyry	Qtz Fl pyrite porphyry, Jar-Gt stained	G
El Fierro alteration	TH44	granite	join surface: Spc(Hem), primary Bt altered to Chl	G
El Fierro alteration	TH45	granite	medium to coarse grained granite, mafics altered to Chl	G
El Fierro alteration	TH46	granite	Qtz-Ser altered, mafic minerals are disappeared	GX
Cerro Amarillo				
Cerro Amarillo	ASM224b	altered welded tuff	qz. - sericite - pyrite altered tuff breccia, float	X
Cerro Amarillo	ASM225	residue silica	originally tuff breccia, porous, low density, w/ black limonite stain	OX
Cerro Amarillo	ASM226	residue silica	originally tuff breccia, porous, low density, w/ jarosite - hematite stain	X
Cerro Amarillo	ASM227	residue silica	originally tuff breccia, porous, low density, w/ kaolinite + alunite filling	OX
Cerro Amarillo	ATH258	dacitic pyroclastics	same location as LF97-1 (drill hole of Minera Macho Muerto), sericitic alteration	GXT
Cerro Amarillo	ATH259	dacite	qz. - alunite alteration, plagioclase phenocryst breaks down to pinkish coarse grained hypogene alunite, float	GT
Cerro Amarillo	ATH260	basaltic andesite	least alteration, post-mineralization dyke or flow (?), w/ biot., float	WT
Cerro Amarillo	ATH261	dacite	float (3cm) probably from the peak of Cerro Amarillo, qz.- alunite alteration, plagioclase phenocryst alters to pinkish alunite.	GX
Cerro Amarillo	ATH262	lapilli tuff - tuff breccia	andesitic pyroclastics taken from ledge outcropping, pale greenish propyrytic alteration of epidote, chlorite, and smectite	XT
Cerro Amarillo	ATH263	dacitic pyroclastics	from ledge, tuff breccia - lapilli tuff or pyroclastic flow (?), vuggy, leached, moderately silicified, kaolinite > alunite alteration	GX
Cerro Amarillo	ATH264	lapilli tuff - tuff breccia	from ledge, andesitic pyroclastics, pale greenish propyrytic alteration of epidote, chlorite, and smectite	X
Cerro Amarillo	ATH265	dacitic pyroclastics	from ledge, tuff breccia - lapilli tuff or pyroclastic flow, vuggy, moderate - strong silicification, qz. - alunite alteration	GXDT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Cerro Amarillo	ATH266	welded tuff	weak alteration, eutaxitic structure, N25W dipping 40E	XT
Cerro Amarillo Norte	ASM231	silicified dacite	silicified dacite, w/ native sulfur of 5mm diameter, alunite, float	OX
Cerro Amarillo Norte	ASM232	silicified rock	intensely silicified alunitized rock, origin unknown, w/ black limonite stain, float	OX
Cerro Amarillo Norte	ASM233	silicified lapilli tuff	dacitic tuff breccia - lapilli tuff, w/ gray silicified rock fragment , implinted silicification and alunitization	OX
Cerro Amarillo Norte	ATH281	welded tuff	pale greenish color smectite alteration, including silicified clast	GX
Cerro Amarillo Norte	ATH282	welded tuff	dacitic welded tuff, including silicified clasts, smectite + kaolinite alteration (?)	GX
Cerro Amarillo Norte	ATH283	welded tuff	from Ledge, N80E trend, strongly silicified, native sulfur, kaolinite alteration (?)	GX
Cerro Amarillo Norte	ATH284	welded tuff	from Ledge, weak to moderate silicification, plagioclase phenocryst alters to alunite.	GX
Cerro Amarillo Norte	ATH285	welded tuff	from Ledge, moderate to strong silicification, qz. + alunite alteration, jarosite, kaolinite	GX
Cerro Amarillo Norte	ATH286	dacite	dacite dome (?), plagioclase phenocryst alters to pink alunite.	GX
Cerro Amarillo Norte	ATH287	andesitic pyroclastics	lapilli tuff - tuff breccia, monolithologic autbrecciated lava (?), chlorite + epidote: propylitic alteration, float	XT
Cerro Amarillo Norte	ATH288	andesite	dyke (?), chlorite: propylitic alteration, float	T
Despoblados				
Despoblados	AKY400	silicified argillic rock	pale grey colored silicified argillic altered rock after andesite tuff breccia(?) w/ Qtz Py veinlets, weakly Jar stain, float	GXF
Despoblados	AKY401	silicified argillic rock	pale grey colored Kln-Qtz-Ser argillic altered silicified rock w/ white Qtz thin veinlets, supergene Alu(?) patched	GX
Despoblados	AKY402a	argillic altered tuff breccia	Kln-Qtz-Ser argillic altered dacitic tuff breccia (Bt-Hbl-Qtz), Jar stained and small drop	X
Despoblados	AKY402b	Lim-Qtz vein	Lim(mainly Jar) stained weakly porous (leached vug) Qtz vein, strikes N75W dips 74S, 8cm width	GF
Despoblados	AKY403	altered tuff breccia	dark green colored propylitic altered Hbl Bt bearing tuff breccia, supergene Kln patch	X

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Despoblados	AKY404	argillic altered tuff breccia	with Qtz-Jar stockwork, the zone strikes N85E dips vertical, 2m width	G
Despoblados	ASM419	altered andesitic tuff	gray to light gray, qz sericite- py(subtle) alteration, qz veinlet of 1mm	GX
Despoblados	ASM420A	qz. vein	5mm w/d , qz: gray, f m g , few sulfides	G
Despoblados	ASM420B	altered tuff breccia	greenish, chl - sericite small aggregate replacing mafic, pl kaolinitized	X
Despoblados	ASM421	qz. vein	5cm w d., qz eg, clear, few sulfides, limonite stained	G
Despoblados	ATH505	tuff breccia	buff color clay: smectite?W-sil. kaolinite clay is observed in the same outcrop : supergene?	X
Despoblados	ATH506	tuff?	kaolinite alt. with silica vein: w=2-3mm	GX
Despoblados	ATH507	lapilli tuff?	kaolinite alt. (hypogene?) matrix: very weak sil	X
Despoblados	ATH508	rhyolite	W ~M sil. Fd phenocryst ~white clay: kaolinite. steam heated alteration? Bt: silky white clay	GX
Despoblados	ATH509	silicified vein	w=5cm, N40E trend: this trend is the same as ridge trend	G
Guanaco Zonzo				
Guanaco Zonzo	AKY385	silicified welded tuff	weakly vuggy, with Bat, Jar stain	GX
Guanaco Zonzo	AKY386	argillic welde tuff	yellowish brown, dark green, light grey, reddish brown colored argillic altered welded tuff, Smc argillic(?)	GX
Guanaco Zonzo	ASM406	altered tuff	silicified, very weakly py disseminated,	GX
Guanaco Zonzo	ASM407	altered welded tuff	light gray, intensely silicified, very weakly py disseminated, welideding lense totally leached	G
Guanaco Zonzo	ATH474	silicified rock	original rock:ignimbrite. s-sil. with kaolinite alt. goethite, native sulfer. steam-heated acid alteration? pumice altered to kaolinite	GX
Guanaco Zonzo	ATH475	silicified rock	original rock:ignimbrite. s-sil. vuggy. pumice altered to kaolinite	G
Guanaco Zonzo	ATH476	silicified rock	original rock: ignimbrite. s-sil. pumice: silicification. no vuggy. transparent and tabular crystals ~barite?	X

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Guanaco Zonzo	ATH477	ignimbrite	greenish. pumice ~greenish clay:(smectite or Chl/Smc mixed layer?)+white clay(ill/smc mixed layer clay?)	X
Guanaco Zonzo	ATH478	ignimbrite	Bt rhyolitic ignimbrite. pumice ~welding texture. Bt: fresh. Fm Dona Ana. host rock of alteration	W
Veladero Norte				
Veladero Norte	AKY384	silicified breccia	light grey colored strongry silicified fragments with argillic siliceous vuggy matrix, Hem drop in vug	GXP
Veladero Norte	ASM402	silicified rock	intensely silicified w/ dense limonite coat, first drilling site in Veradero Norte	G
Veladero Norte	ASM403	silicified breccia	"tuffaceous breccia" by Argentina Gold, w/o sulfide visible	G
Veladero Norte	ASM404	silicified breccia	"transitional breccia", w/o sulfide visible	G
Veladero Norte	ASM405	silicified breccia	"breccia freatica", w/o sulfide visible	G
Veladero Norte	ATH472	silicified rock	Sector Agustina breccia pipe. vuggy silica, jarosite stain	G
Veladero Norte	ATH473	silicified rock	hydrothermal breccia. vuggy silica.silicification (silica deposition) overprint with smectite?	GX
Veladero Sur				
Veladero Sur	AKY387a	argillic silicified rock	grey colored silicified rock with ivory colored veinlets (Qtz-Kln?), yellowish brown colored stain (Jar), white very small patch (Kln?), supergene overprint	GX
Veladero Sur	AKY387b	caly-Qtz veinlets	ivory colored, little bit hard	X
Veladero Sur	AKY388	silicified breccia	grey colored weakly vuggy silicified-siliceous breccia with yellowish colored clay-Qtz stockwork, reddish colored stain	GX
Veladero Sur	AKY389	andesite	dark grey colored propylitic altered andesite, Chl-Py, Mag rich	T
Veladero Sur	AKY390	silicified argillic rock w/ Qtz vein	white grey colored weak silicified and argillic altered and Jar stained dacitic tuff w/ Qtz vein, less than 1cm width, Hem in vug of Qtz vein	GXF
Veladero Sur	ASM408	altered andesite	gray greenish, aphanitic, py disseminated, gypsum along fracture	G
Veladero Sur	ASM409	silicified rock	original texture unknown, partly brecciated, qz clast + dense limonite, probably in-situ	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Veladero Sur	ATH479	quartz vein	in m-sil rock. w=1mm-1.5cm. low temperature quartz. white clay: kaolinite?	GX
Veladero Sur	ATH480	silicified rock	fault brecciated. m-sil.	GX
Veladero Sur	ATH481	argillized rock	white clay: kaolinite	X
Veladero Sur	ATH482	breccia	breccia:∫=5mm-3cm, white clay kaolinite? matrix: dark grey chalcedonic silica	GX
Veladero Sur	ATH483	silicified rock	white colored silica and dark grey colored silica. very fine transparent and tabular crystals	XT
Veladero Sur	ATH484	quartz vein	Sector Mula Tuerta. w=5mm. N12W, 70W dip. host rock: m-sil. white clay: mixed layer or sericite?	GXF
Veladero Sur	ATH485	quartz vein	Sector Mula Tuerta. w=70cm, N15W, vertical. partly silicified vein	G
Veladero Sur (southern qz vein)	ASM410A	altered dacite	gray white, silicified, host of ASM410B	X
Veladero Sur (southern qz vein)	ASM410B	qz. vein	70cm wd, N30W 55W, qz: clear, m-c g., very little sulfides	G
Rio Frio				
Rio Frio	AKY395	silicified argillic rock	light grey colored moderately silicified and Kln argillic rock after dacitic tuff w/ chalcedonic Qtz stock work, Qtz-Kln veinlets	GX
Rio Frio	AKY396	siliceous rock	Jar-Hem stained siliceous rock after tuff(?), supergene altered, Alu(?)-Gyp	GX
Rio Frio	AKY397	altered dacite	white patched pale grey colored Kln-Ser-Qtz argillic altered porphyritic dacite (Qtz bg, Bt-Hbl), float	X
Rio Frio	AKY398	silicified rock	highly silicified, small vug many w/ crystaline Qtz and minor S crystal in druse	GF
Rio Frio	AKY399	silicified argillic rock	white to light grey colored silicified and moderately argillic altered rock after tuff breccia, Kln-Ser-Qtz argillic(?)	GX
Rio Frio	ASM414	limonite rock	massive limonite (red hematite) w/ qz fragment of <2mm	G
Rio Frio	ASM415	silicified tuff breccia	intensely silicified, light gray, ledge of 5m width, trending NW, pl leached cavity	G
Rio Frio	ASM416	silicified tuff breccia	intensely silicified, porous (tuffaceous clast leached), ledge extending N75W	GX

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Survey area / locality	sample	rock type	description	analyses
Rio Frio	ASM417	altered dacite	phenocryst: qz-biot-pl, biot replaced sericite, silicification dominant, very few pyrite	XDT
Rio Frio	ATH494	silicified rock	fine grain part of pyroclastic rock? w=5cm. highly silicified	G
Rio Frio	ATH495	silicified rock	pyroclastics. M `S-sil. jarosite>goethite stained	X
Rio Frio	ATH496	silicified vein	w=10cm, N40W, vertical. white colored phenocryst: kaolinite?	G
Rio Frio	ATH497	welded tuff	M-sil. pumice and Pl phenocryst: white clay `kaolinite?	X
Rio Frio	ATH498	quartz vein	float	G
Rio Frio	ATH499	silicified rock	highly silicified. original rock: welded tuff. transparent and tabular, triangle shape crystal: gypsum?	GX
Rio Frio	ATH500	silicified rock	Altitude 4810m. peak of altered mountain (yellow color) highly silicified.	G
Rio Frio	ATH501	welded tuff	peak of altered mountain (yellow color) M `S-sil. white clay:kaolinite?	X
Rio Frio	ATH502	pyroclastic rock	exist between propyllitic andesite. M-sil. jarosite stained	X
Rio Frio	ATH503	quartz vein	exist in ATH502 pyroclastic rock. low temperature quartz. w=4cm	G
Rio Frio	ATH504	andesite	propylitic alteration. epidote and chlorite	X
Zancarron				
Zancarron	AKY391	silicified argillic welded tuff	light grey colored weak silicified and white argillic altered rock after Qtz bg welded tuff w/ chalcedonic Qtz veinlets	G
Zancarron	AKY392	welded tuff	light grey colored weak silicified altered welded tuff, w/ Py-Cov(?) diss. and chalcedonic Qtz veinlet	GX
Zancarron	AKY393	Ena Qtz vein(?)	Sco stain, Ena in vug	O
Zancarron	AKY394	silicified rock	Sco stained silicified and siliceous rock, Sco in vug of siliceous portion	G
Zancarron	ASM411	silicified rock	densely limonitinized, original texture unknown, qz veinlet, from old trench	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Zancarron	ASM412	qz vein (silica layer?)	curved occurance, qz: clear to dark gray, fine to medium grained, very few sulfides, w/ highly silicified host rock (original texture unknown)	G
Zancarron	ASM413	silicified rock	dark gray, intensely silicified, fine grained py streaks, pl replaced compact porceline kaolinite	G
Zancarron	ATH486	quartz alunite? vein	w=1cm, N15E trend, same direction as fractures and ridge direction	GX
Zancarron	ATH487	silicified rock	highly silicified	G
Zancarron	ATH488	silicified with alunite rock	original rock: welded tuff, pumice and Fd phenocryst changed to alunite (hypogene)	XT
Zancarron	ATH489	alunite?	fine grained, white color, occurance shows secondary like talus fine	X
Zancarron	ATH490	alunite vein?	vein like form alunite, coarse grain, pale green clay on the alunite: Smc or scorodite?	X
Zancarron	ATH491	energite	in vug of vuggy silica.	
Zancarron	ATH492	alunite	massive alunite+quartz rock, alunite grow as like cocade texture around silicified breccia core.	XDPIS
Zancarron	ATH493	energite	energite with scorodite in vug of vuggy silica.	GP
El Salado				
El Salado	ASM346	basemetal ore	gn-sph-py-barite vein, fine grained, barite rich, from old adit	OP
El Salado	ASM347	altered aplite dyke	dyke adjacent to ore, highly argillized, weakly cohesive, mafic unidentified, barite rich, from old adit	T
Mina El Salado	ATH383	ore	barite+siderite?+galena+minor chalcopyrite, chlorargyrite in black minerals?	GP
Mina El Salado	ATH384	dike rock	andesitic dike, adajcent to the vein, pale green, mafic phenocryst:chloritic alt, Fd albite alt?, propylitic alteration	WT
Mina El Salado	ATH385	ore	quartz, barite, black color minerals:siderite?	F
Mina El Salado	ATH386	aphtic dike	w=7-8m, white color mineral phenocryst, chloritized phenocryst, rarely Qtz phenocryst	T

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Las Openas				
Las Openas	AKY338	Qtz vein	2cm in width, non-equigranular Qtz agregation with Py dissemination around core portion, Hem or Hem-Gt stain	PF
Las Openas	ASM354	limonite-qz. vein	core: gray, porous, intensely silicified ; rimb: jarosite dominant limonite shell, hosted in sericitized granite	O
Las Openas	ASM355	altered granite	biot replaced by white mica, host of 354, originalty qz- K-fel - pl - biot	DT
Las Openas	ATH398	quartz vein	with pyrite, arsenopyrite, secondary scorodite: N80E	GF
Las Openas	ATH399	quartz vein	Miranda vein, arsenopyrite, orpiment? EW trend, scorodite.	GX
Las Openas	ATH400	muscovite granite	host rock of Las Openas vein system, S type granite?	WT
Las Openas West	AKY337	Qtz vein	2cm in width, comb texture and coarse grained crystaline, thick powder Hem after Py in core portion, Gn-Sp in places	GF
San Pedro	AKY336	silicified breccia	with Qtz veinlets, Ser(?) argillic	GX
San Pedro (larger)	ASM353A	qz. vein	py diss, py: medium grained, qz: coarse grained, comb tex , from stockpile	O
San Pedro (larger)	ASM353B	altered dacite	light greenish, possibly sericite alt, weakly silicified, host of 353A, float	X
El Carrizal				
El Carrizal	SM25	vein	white clear coarse grained Qtz vein, 3cm in width, Ln diss	O
El Carrizal	SM26	vein	white coarse grained Qtz-Cal vein, 3cm in width, Cpy diss	O
Carmen Norte				
Carmen Norte	AKY374	altered andesite	plae grey colored altered andesite, Mag rich	GXT
Carmen Norte	AKY375	siliceous breccia	weakly vuggy w/ native sulfur and chalcedonic Qtz veinlets, float	G
Carmen Norte	AKY376	argillic andesite	grey colored argillic altered andesite or dacite, small Qtz as phenocryst, Alu(?) Klo as supergene alteration mineral(?), very fine grained Py disseminatio 5%, float	GX

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Carmen Norte	AKY377	altered andesite	dark grey colored least propylitic altered andesite, minor Py diss.	GT
Carmen Norte	AKY378	least altered andesite	weakly porphyritic, float	R
Carmen Norte	AKY379	altered andesite	light grey colored argillic and silicified altered Qz bg andesite, Kln after Pl phenocryst, silicified groundmass	GX
Carmen Norte	AKY380a	Qz vein	white colored massive Qz vein w/ abundant tablar angular silicified clasts, N55E90, 60cm width, stockwork in silicified rock(?) w/ native sulfur	G
Carmen Norte	AKY380b	Qz vein	N80E90, 0.5mm width, drive from AKY380a	GF
Carmen Norte	AKY380c	banded silica	banded or platy jointed silicified zone, 10cm width, contact with AKY380a	G
Carmen Norte	AKY381	argillic siliceous breccia	strongly argillic and weak silicified (siliceous) breccia w/ native sulfur, Gyp patch, the breccia zone strikes NS, dips vertical, 12cm width	GXR
Carmen Norte	AKY382a	Qz veinlet	N25W70E, less than 1cm width, Jar stained and weakly vuggy (leached), in AKY382b	GF
Carmen Norte	AKY382b	argillic rock	yellowish white colored argillic rock after andesite, Jar stain, from beside AKY382a	X
Carmen Norte	AKY382c	altered andesite	white patched grey colored argillic altered Qz bg 1Bd Bt andesite (dacite?), Hem diss.	T
Carmen Norte	AKY383	silicified rock	weakly vuggy silicified rock with chalcedonic Qz vein, sulfur in vug, float in ledge	G
Carmen Norte	ASM396	altered andesite	silicified, less continuous ledge extending NE, py diss, py m.g.	G
Carmen Norte	ASM397	altered andesite	silicified, light gray, subtle py diss, clear qz aggregate (late stage, euhedral), biot replaced by sericite ?	X
Carmen Norte	ASM398	silicified breccia	hydrothermaly brecciated silicified rock, matrix cemented by limonite (jarosite dominant)	GX
Carmen Norte	ASM399	silicified rock	vuggy qz, ledge of 20m width, trending NE - NNE, dense limonite coating	GX
Carmen Norte	ASM400	altered andesite	light gray, weakly silicified, py diss, gypsum rich, very subtle limonite stain	GX
Carmen Norte	ASM401	silicified argillized rock	white to light gray, silica + kaolinite pervassive alteration, py diss	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Carmen Norte	ATH458	Ignimbrite	pale grayish pale green color. w-sil. py-dissem. pale greenish color is due to smectite?	GX
Carmen Norte	ATH459	silicified rock	s-sil. vuggy silica with alunite. Lapilli tuff or dacite? Altitude:4610m	GXT
Carmen Norte	ATH460	alunite vein	vein like form alunite in silicified ATH459 rock. w=5cm-40cm. coarse grain alunite. Altitude:4670m	XDPIS
Carmen Norte	ATH461	silicified rock	Altitude:4680m. Qtz+alunite. forming ledge	GX
Carmen Norte	ATH462	native sulfur	float in vug of silicified rock . hypogene sulfur?	S
Carmen Norte	ATH463	silicified rock	Altitude:4755m. forming ledge. N55W trend	G
Carmen Norte	ATH464	hydrothermal breccia	Altitude:4800m. M-sil. Py dissemination	GX
Carmen Norte	ATH465	silicified rock	Altitude:4890m. bleaching. s-sil. Qtz-Alu alt. gypsum overprint. white color phenocryst altered to alunite. original rock: pyroclastics	GX
Carmen Norte	ATH466	quartz vein	in s sil rock. w=5cm. chalcedonic. N10W, 70S dip	G
Carmen Norte	ATH467	quartz vein	in s-sil rock. w=2,3mm-1cm. chalcedonic. N23E, 74W dip. with pyrite	PF
Carmen Norte	ATH468	hydrothermal breccia	Altitude:4950m. pipe form. jarosite stained. Qtz+Alu alt.	GX
Carmen Norte	ATH469	hydrothermal breccia	Altitude 5010m. pipe form with chalcedonic veinlet. breccia dacitic rock	GXT
Carmen Norte	ATH470	hydrothermal breccia	Altitude 5100m. near peak. s sil with chalcedonic Qtz veinlet Qtz partly black colored, due to very fine sulfide? opalline crack	GX
Carmen Norte	ATH471	pyroclastic rock	Altitude 5120m peak of Carmen Norte. pyroclastic flow? w sil. partly chalcedonic silicification and breccia included	G
Quebrada de Chita				
Chita	ATH377	quartz-sericite-Py altered rock	Qtz veinlet stockwork. green Cu minerals stained. "D vein" stockwork zone. original rock: porphyry or andesite?	DT
Chita (Au old adit Au)	ASM342	qz. vein	qz. medium to coarse grained, asp diss., N70W 70N, from old adit	GXF
Chita (porphyry)	ASM341	altered dacite	white to light greenish, sericite sample for dating	

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
near Chita	ATH378	quartz vein	float. Py dissemination. Barite crystals. vein trend N75W in Toccta Granodiorite	GF
Quebrada de Chita	KY14	monzonite porphyry	float of Cu-oxied stained monzonite porphyry, secondary Bt and Qtz-copper oxied veinlet occur	R
Quebrada de Chita	KY15	argillic altered breccia	white argillic altered breccia, supergene Alu occur	X
Quebrada de Chita	KY16	siliceous argillic rock	white siliceous argillic rock w/ Qtz veinlet, brecciation in part	GX
Quebrada de Chita	KY17	monzonite porphyry	fine grained, white colored, secondary(?) Bt appears	R
Quebrada de Chita	KY18	monzonite porphyry	white argillic altered monzonite porphyry w/ very few Cu-oxied stain in fracture or Qtz stockwork less than 1cm in width and 2 to 20cm in spacing	R
Quebrada de Chita	KY19	monzonite porphyry	white argillic-siliceous altered monzonite porphyry w/ Qtz veinlet, Ser-argillic(?)	GX
Quebrada de Chita	KY20	monzonite porphyry	pale white argillic altered monzonite porphyry w/ Gt (from Py) diss, most likely supergene overprinted in Qtz-Sericite argillic	GX
Quebrada de Chita	KY21	Qtz-Silica vein	coarse grained clear to smoky white, 8 to 30cm in width, N65E in strike and 85NW in dip, formed in monzonite porphyry as part of Qtz-stockwork	G
Quebrada de Chita	SM17	vein	dark grey Qtz vein, 7cm in width, w/ green-Cu diss	O
Quebrada de Chita	SM18	altered monzonite	Limonitized, silicified-(Ser) argillic altered monzonite, green-Cu diss	OX
Quebrada de Chita	SM19	altered monzonite	Silicified-Ser monzonite, green-Cu diss	OX
Quebrada de Chita	SM20	altered monzonite	Silicified-Ser monzonite, green-Cu diss	OX
Quebrada de Chita	SM21	altered monzonite	Silicified-Ser monzonite, leached	O
Quebrada de Chita	SM22	altered sandstone	Intoensly silicified grey sandstone	O
Quebrada de Chita	SM23	altered rhyolite	argillic (Ser) rhyolite, w/o sulfides	O
Quebrada de Chita	SM24	altered monzonite	silicified Ser monzonite, leached	O

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Quebrada de Chita	TH25	Qtz-Pl porphyry	potassic alteration, hydrothermal Bt, indegenous Hem form Cc	O
Quebrada de Chita	TH26	Qtz-Pl porphyry	Qtz-Ser alteration overprinted potassic alteration, indegenous Hem	G
Quebrada de Chita	TH27	granodiorite	equigranular homegeneous, secondary Bt, potassic alteration	OX
Quebrada de Chita	TH28	green Cu vein	2 to 3cm in width, green Cu (Ma-Crv?)-Qtz vein	O
Quebrada de Chita	TH29	Qtz-Pl pwphyry	Qtz veinlet network, green Cu, Qtz-Ser alteration	GX
Quebrada de Chita	TH30	Qtz-Pl pwphyry	Qtz veinlet network, leached zone, Qtz-Ser alteration	G
Quebrada de Chita	TH31	Qtz-Pl porphyry	Qtz veinlet network, green Cu , Py relict	O
Quebrada de Chita	TH32	Qtz-Pl porphyry	silicification, indigenous Hem dissemination, green Cu mineralization, Qtz-Ser alteration	O
Quebrada de Chita	TH33	Qtz-Pl porphyry	green Cu mineralization, Qtz-Ser alteration	O
Quebrada de Chita	TH34	breccia	bonk shaped breccia, Qtz-Ser alteration, silicification, white colored	G
Quebrada de Chita	TH35	porphyry?	white colored, green Cu mineralization, indigenous Hem.	G
Quebrada de Chita	TH36	porphyry?	white colored, Qtz-Ser alteration	GT
Toccta District				
2.5km W of Dos Amigos	ATH373	breccia ore	Qtz breccia. matrix consists of fine arsenopyrite+tourmaline?	G
2.5km W of Dos Amigos	ATH374	hydrothermal breccia	Qtz breccia. matrix consists of tourmaline	G
2.5km W of Dos Amigos	ATH375	tourmaline+quartz vein	with arsenopyrite. N25W trend. secondary scorodite	G
2.5km W of Dos Amigos	ATH376	ore	tourmaline?+arsenopyrite vein. w=2-3cm. N50W trend. white- pale green halo. white - "sericite? pale green - "scorodite?	GP
Colocolo	AKY333	silicified rock	N40W70SE, brecciated highly silicified rock, Gt stain and veinlets, silicified fragments after sandstone, medium grained hypogene Alu(?)	GX

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Colocolo	AKY332	silicified rock	preserved Py (or other sulfides) are visible	G
Dos Amigos	ATH371	quartz vein	with oxide Cu minerals stained. E-W trend. w=3-5cm.	F
Dos Amigos	ATH372	tourmaline vein	float. tourmaline vein has quartz-rich halo+Kf rich halo	P
Krimer	AKY333	andesite porphyry	fine grained Bt in grandmass, due to contact metamorphism or K-silicate alteration, Apy diss.	GPR
Mina Colocolo, Tocota	ATH358	kaolinite vein	w=3cm. in Tertiary ignimbrite. veins have iron stained halo. supergene kaolinite?	X
Mina Colocolo, Tocota	ATH359	tourmaline vein	float. tourmaline vein w=1.5cm. vein has pinkish reddish feldspar halo K-feldspar?	T
Mina Colocolo, Tocota	ATH360	tourmaline rock	float. massive tourmaline rock. radiational texture	
Mina Colocolo, Tocota	ATH361	ore	tourmaline with arsenopyrite and scorodite. scorodite is supergene products of arsenopyrite. with quartz vein	GPF
Mina Colocolo, Tocota	ATH362	sandstone	host rock of ATH361. xhunite alteration or sericite?	XDT
Mina Colocolo, Tocota	ATH363	andesitic - dacitic volcanics	white color. weak flow banding. glassy. phenocryst Pl, Bt, Hbl, Mt. tourmaline rock inclusions.	T
Mina Colocolo, Tocota	ATH364	granodiorite	Tocota granodiorite. fine to medium grained. Bt granodiorite	WT
Mina Kirmer, Tocota	ATH365	gangue minerals	float. K-feldspar, scorodite, quartz	XTF
Mina Kirmer, Tocota	ATH366	ore	outcrop fo old adit. tourmaline+quartz with arsenopyrite	X
Mina Kirmer, Tocota	ATH367	siltstone hornfels	host rock of tourmaline +quartz vein. has been contact metamorphosed.	T
Mina Kirmer, Tocota	ATH368	silicified hornfels	silicified rock of ATH367	XT
Mina Kirmer, Tocota	ATH369	andesite	intrude into ATH367, 368 rocks. has also been contact meta. matrix : fine Bt, Pl : blueish gray color minerals.	T
Mina Kirmer, Tocota	ATH370	andesite	same rock of ATH369. at the crack: micropegmatite (Kf+Bt) vein	

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Tocota (Colocolo)	ASM335	hydrothermal breccia	ledge elogated N60W, deasely silicified and brecciated sandstone, qz: gray to dark gray, silica fragment includes subtle asp	GX
Tocota (Colocolo)	ASM336	sandstone	gray white, massive, including tourmaline, qz veinlet	GX
Tocota (Colocolo)	ASM337	As - Au ore	tourmaline-qz-asp vein, very fine grained powdery sulfides (probably asp), black, taken from old adit	GXT
Tocota (Colocolo)	ASM338	granodiorite	including tourmaline veinlet with pinkish selvage	T
Tocota (Krimer)	ASM339	As - Au ore	altered sandstone with secondary tour-qz- K-fel assemb., marachite-crysocola selectively disseminated in tour enriched part, from ore stockpile	GXT
Tocota (no name)	ASM340	hydrothermal breccia	smallish ledge, silicified sandstone w/ tour diss, sulfides diss (py dominant), from old trench	GX
San Francisco				
San Francisco	KY07	breccia pipe	float of Tor-Qtz vein	O
San Francisco	SM13	Cu oxide ore	Cu oxide ore	O
San Francisco	TH19	breccia pipe	brecciation, breccia is silicified host rock of sedimentary rock, matrix is To-Qtz	R
San Francisco	TH20	oxide copper ore	Ma-Crs-Azu	R
El Retamal				
El Retamal	KY08	Cu-oxied mineralized granodiorite	medium grained granodiorite w/ (Cpy?)-Py-diss and Cu-oxied-stain, Qtz- or Py-Qtz veinlet occur	R
El Retamal	KY09	silicified sandstone	grey colored medium silicified very fine grained sandstone w/ minor Py-diss and Tor?-clay-patch	G
El Retamal	KY10	silicified breccia	silicified of breccia 5cm in width contains silicified sandstone as fragment, very minor Py-diss	G
El Retamal	KY11	Qtz-porphyry	white colored medium argillic-weak silicified (Qtz-Ser argillic?) Qtz porphyry w/ supergene alteration overprinted, minor Qtz veinlet occurs	X
El Retamal	KY12	argillic porphyry to granodiorite	very weak pale grey argillic altered (Ser?) Pl-porphyry to granodiorite	GX
El Retamal	KY13	granodiorite	compact medium grained least altered granodiorite, same as KY12	GT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
El Retamal	SM14	silicified rock	Qtz Ser altered brecciated rock	OX
El Retamal	SM15	silicified rock	Qtz-Py-Ser altered silt stone	OX
El Retamal	TH21	granodiorite	oxide copper (Mn?) halo, w/ Py-Cp? Dissemination, Qtz vein network (2mm in width)	G
El Retamal	TH22	dyke	fine grained micro dioritic, least alteration, post mineralization?, N30W trend	DT
El Retamal	TH23	Bt-Pl porphyry	Bt-Pl phenocryst, Py dissemination in matrix, intrude into granodiorite?	GT
Vizcachas				
Viscachaz	ATH325	silicified rock	white color, highly silicified, Py dissemination, original rock rhyolite	GXT
Viscachaz	ATH326	rhyolite	magnetite clots dissemination, propylitic alteration? or K silicate alteration? float	P
Viscachaz	ATH327	brecciated quartz vein	in rhyolite (propylitic alteration?), float	G
Viscachaz	ATH328	magnetite veinlet in rhyolite	w=4mm, fine grained magnetite veinlet in K-silicate alt. or propylitic alt.	G
Vizcachas	AKY311	silicified rock	light grey colored, Ser-Qtz veinlets with fine grained-Mag halo, Qtz-Kfs-Mag veinlet with alteration halo and Qtz-Mag patch with KFs halo	GP
Vizcachas	ASM3358	alt. rhy	sil. rhy., subtle py (leached out)	GX
Castano Viejo District				
Animas	ASM309	alt. dc.	mafic out, tourmaline rich	GXT
Animas	ASM310	alt. bc. dc	gray white, intensely sil., py diss, qz veinlet of 0.5mm	GX
Castano Viejo	ATH310	quartz vein	w=1-15cm, vein zone w=50cm, high temperature quartz, adjacent to vein is sericite alteration.	GF
Condor	ASM307	basemetal ore	qz-py-sph-gn vein at old pit, sph: greenish transpalent	OP
Mina Animas	ATH312	quartz+silicified vein	brecciation, highly silicified and quartz vein zone:w=2m, direction EW	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Mina Animas	ATH313	greenish gypsum?+Qtz vein	greenish color vein (gypsum?)+quartz vein	GX
Mina Animas	ATH314	quartz vein	almost 50cm above ATH313, brecciation, highly silicified, epithermal vein? direction N75-80W.	GF
Mina Animas	ATH315	intrusive rock	fine grained, Pl altered to sericite or mixed layer clay, fine grained tourmaline disseminated.	XDT
Mina Toro	ATH311	sphalerite, galena ore	brecciated sphalerite and galena in quartz vein, the color of Sp is greenish.	
San Nicholas	ASM308	basemetal ore	qz-ccp-ga-sph vein at ore stockpile	OP
Cuatro Amigos				
Cuatro amigos	AKY307	silicified breccia	Sp-Gn fragments, Py-Qtz veinlets	O
Cuatro amigos	AKY308a	brecciated ore	Qtz-Py-Sp-Gn vein clasts in Calcite matrix with Gz-Qtz comb rim, rim portion	PF
Cuatro amigos	AKY308b	brecciated ore	Qtz-Py-Sp-Gn vein clasts in Calcite matrix with Gz-Qtz comb rim, clasts portion	F
Cuatro Amigos	ASM311	basemetal ore	qz-ccp-gn-sph vein, sph: light brown	P
Cuatro Amigos	ATH316	sphalerite, galena ore	sphalerite>>galena, chalcopyrite, Qtz high temperature quartz.	PF
Cuatro Amigos	ATH317	quartz vein with sphalerite	about 30- 50m above the ATH316, vein trend N80W	O
Avestruces				
Avestruces	ATH329	silicified rock	highly silicified, original rock: dacite, white clay Fkaolinite?	GX
Avestruces	ATH330	silicified rock	highly silicified, veinlike form, N12E trend	G
Avestruces	ATH331	silicified-argillized rock	original rock:dacite, Pl "white clay,kaolinite?	XT
Avestruces	ATH332	silicified-argillized rock	Pl phenocryst "white colored clay: kaolinite or alunite?	GX
Avestruces	ATH333	silicified rock	chalcedonic quartz: opalline crack	

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Avestruces	ATH334	alunite vein	along the fine of crack. white color. supergene alunite?	X
Avestruces	ATH335	silicified rock	along structure of andesite. highly silicified layer w=30cm. white clay `kaolinite	G
Avestruces	ATH336	quartz vein	Qtz veinlet stockwork. Qtz veinlet w=0.5-3cm. in M-silicified kaolinite altered rock	GF
Avestruces	ATH337	silicified rock	M-S silicified. Pl `kaolinite or alunite?	GX
Avestruces	ATH338	silicified rock	original rock: andesitic pyroclastics. Py dissemination	G
Avestruces	ATH341	silicified rock	highly silicified. original rock lapilli tuff `tuff breccia. white clay: sericite?	GX
Avestruces	ATH342	silicified rock	M sil. original rock:rhyolite? flow banding. white clay/sericite	GXT
Avestruces	ATH343	silicified rock	original rock:dacitic `andesitic? Pl altered to sericite. jarosite stained	GXD
Avestruces	ATH344	andesite	intrusives? one of the host rocks of Avestruces alt. zone. Hbl andesite `dacite. Hbl fresh. inclusions of dacite.	WDT
Avestruces (south)	ASM322	silicified rock	ledge, white, intensely silicified, original texture vague but probably lava origin	GX
Avestruces (south)	ASM323	densely silicified rock	ledge, massive silica, qz: white-clear-dark gray: chalcedonic, fine grained py diss.	G
Avestruces (south)	ASM324	argillized rock	depression of ledge, parvassive kaolinite alteration, originally sericite (?), original texture vague	GX
Avestruces (south)	ASM325	silicified argillized rock	ledge, silica enriched equivalent of ASM324, white to light gray	GX
Avestruces-north	AKY312a	argillic rock	light grey colored weak silicified moderately argillic rock with Kln patch after phenocryst of porphyritic andesite	GX
Avestruces-north	AKY312b	Qtz vein	N70E82N, N80W50N, N85W83N, 2cm in width, drusy in places, within AKY312a	GF
Avestruces-north	AKY313	silicified rock	highly silicified rock, compact	GT
Avestruces-north	AKY314	argillic rock	pale light grey colored argillic rock after tuff(?)	GX

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Avestruces-north	AKY315a	silicified argillic rock	light grey colored, after porphyritic andesite	X
Avestruces-north	AKY315b	silica vein	N87E72S, 1 to 2cm in width, within AKY315a	G
Avestruces-north	AKY316	argillic rock	greyish white colored argillic rock after porphyritic andesite, strike extension area for AKY312 vein zone	GX
Avestruces-south	AKY317	silicified rock	strongly silicified rock, Hem(?) veinlet network	GP
Avestruces-south	AKY318	silicified rock	fine garined white clay (Alu?) patch, due to supergene?	X
Avestruces-south	AKY319	porphyritic andesite	porphyritic andesite, propyitic altered, Hbl as phenocryst relict	T
Avestruces-south	AKY320	argillic silicified rock	light grey colored argillic silicified rock after porphyritic andesite, Kln patch after phenocryst, preserved Py(?) diss.	GX
Aveztruces	ASM316	alt. dc	intensely sil., white, py diss (leached out)	GX
Aveztruces	ASM317	alt. db	silicified ledge surrounded by less silicified andesitic tuff breccia, originally qz-ser alt (prob.), supergene kaolinite, py diss (leached out)	GX
Aveztruces	ASM318	altered andesite	sil. arg. (kao, ser), gray white	GX
Aveztruces	ASM319	silicified rock	ledge, py leached out	GX
Aveztruces	ASM320	altered andesite	weak - moderately silicified, py in sil. part, partly kaolinitized	GX
Aveztruces	ASM321	silicified argillized rock	ledge, possibly andesite, biot replaced by ser	XDT
near Avestruces	ATH339	dioritic intrusion	fine-medium grained. propylitic alteration. Pl `pinkish colo albite? Hbl `chloritic	T
near Avestruces	ATH340	quartz vein	brecciation. exist around the contact between Choiyoi andesite and ATH339 dioritic intrusive. w=20-40cm. vein zone:w=1m. N10W. vertical dipping	GF
near Avestruces	ATH345	monzonite	Bt-Hbl monzonite. Pl=Kf>>Qtz. intrude into Choiyoi andesite	WDT
Manrique				
Manrique	AKY321a	argillic rock	Kln-Ser(?) argillic altered andesitic tuff breccia	X

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Manrique	AKY321b	silica Lm vein	N60E90, less than 1cm in width, within AKY321a	G
Manrique	AKY322	silica vein	N60E90, 3cm in width, white colored angular fragments in dark grey colored matrix, strike extention area for AKY321b	G
Manrique	AKY323	silica vein	N74E70S, 4cm in width, grey colored	G
Manrique	AKY324a	argillic rock	greyish white colored argillic rock after andesite or tuff	X
Manrique	AKY324b	Qtz silica Lm vein	N40W85NE, 6cm in width, very minor diss. of Py, Qtz crystal in rim portion	GF
Manrique	AKY325	Qtz Lm vein	N22E76W, 5 to 8cm in width, white and grey banding, within altered andesite(?) near dacite intrusive body	GF
Manrique	AKY326	argillic rock	white colored weak porous, limonitic network	X
Manrique	AKY327	Qtz-Ce vein	N10E90, 1 5cm in width, within white argillic andesitic tuff breccia	G
Manrique	AKY328	silicified breccia	highly silicified and brecciate portion within white argillic rock after andesite(?), non prefered orientation	GX
Manrique	AKY329	silica vein	N65E90, 4cm in width, Lm stained, along with fault	G
Manrique	AKY330	greenish clay(?) mineral	Kln? within AKY328	X
Manrique	ASM326	altered dacite	silicified and argillized, greenish clay, pyrite pseudomorph (cavity) after leach	GX
Manrique	ASM327	silicified argillized rock	qz-kaolinite-alunite alteration, alu-kao supergene ?, originally sericite ?	GX
Manrique	ASM328	rhyolite dyke	slightly silicified ?, 3cm wd , N55W 60S, py leached cavity	G
Manrique	ASM329A	altered andesite	argillized, silicified, kaolinite rich	GX
Manrique	ASM329B	qz. vein	dark gray to black, N60W 90, parallel to elongation of Manrique alt, 5mm wd, qz-medium grained	GF
Manrique	ASM330	altered dacite	light greenish, qz-pl-biot, biot replaced by white mica	XDT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Manrique	ASM331	qz. vein	gray to dark gray banding, 2.5cm wd., N80E 90, pyrite diss (remaining)	G
Manrique	ATH346	volcaniclastics	Choiyoi group, one of the host rock of Manrique alteration, propylitic alteration	T
Manrique	ATH347	volcaniclastics	sericite alteration? Pl remain as albite?	X
Manrique	ATH348	silicified rock	w=15 ~30cm, N30E, brecciation, sericite alteration	GX
Manrique	ATH349	quartz vein	w=2-10cm, N85W, N55W, limonite stained, quartz is chalcedonic?	GF
Manrique	ATH350	quartz vein	w=2-3mm, coarse grained quartz, high temperature?	GF
Manrique	ATH351	dacite	intrusive? host rock of Qtz veinlet stockwork, Pl ~pinkish color alunite or albite?	GX
Manrique	ATH352	quartz vein	w=2-3cm, N60W, N80W, kaolinte alteration,	GX
Manrique	ATH353	dacite	host rock of Qtz veinlet stockwork, intrusive	X
Manrique	ATH354	dacite	sericite alteration, Qtz phenocryst remain, Bt altered to sericite, jarosite stained	XDT
Manrique	ATH355	hydrothermal breccia vein	many clastics are included, w=10cm, EW trend, vertical, jarosite stained,	G
Manrique	ATH356	rhyolite	silicified, kaolinte alteration, flow banding	GXT
Manrique	ATH357	welded tuff	weak silicified, white colored clasts: kaolinite+smectite alteration?	GX
Manrique (north)	ASM332	altered dacite	white to light green, qz-ser-(py) alt., py leached out	GX
Manrique (north)	ASM333	altered limestone	densely silicified rock, carbonates replaced by silica totally, py leached out, N70E 15N,	G
Manrique (north)	ASM334	altered limestone	densely silicified rock, carbonates replaced by silica totally, py leached out, , N20E 45N, qz veinlet of 2mm wd.	G
Castano Nuevo				
Castano Nuevo	SM16	altered diorite (?)	silicified acidic to intermediate pluton w/ Py diss	OXT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Castano Nuevo	TH24	silicified rock	Qtz-Ass alteration, original rock: granodiorite, Py dissemination, high sulfidation-style mineralization	GX
Leoncito				
Leoncito	KY54	argillic dacite	weak argillic dacite, purplish grey colored ground mass and pale grey clay as phenocryst from Pl	GX
Leoncito	TH90	welded tuff	dacitic welded tuff, 1 to 3cm in diameter pumiceous fragment, weak eutaxitic texture	T
Leoncito	TH91	monzodiorite	Hbl: partly chloritized, partly yellowish-white color altered	WDT
Leoncito	TH92	dacite	weak argillic, white to yellowish brown colored, Kln-alt?, weak to medium silicified	GXT
Leoncito	TH93	altered welded tuff	white color altered, Kln-Smc?, 1cm in crack, 20cm in width of alteration zone	GX
Leoncito	TH94	monzodiorite?	Hbl-fresh, partly Pl phyric porphyry texture, same as TH91	WDT
Alcaparrosa				
Alcaparrosa	KY06	meta-sandstone (hornfelse)	very weak reddish darke grey colored altered meta sandstone, Py diss, w/ Qtz-vein w/ Chl-Bt?halo 2mm, 1.5cm in width, near contact with porphyry	GT
Alcaparrosa	SM12	mineralized dacite porphyry	Qtz-Pl-Hbl-Bt dacite w/ Cp-Py dissemination	P
Alcaparrosa	TH17	dacite porphyry	light grey color, Pl-phiric, Bt phenocryst, Py dissemination	T
Alcaparrosa	TH18	basalt	host rock of TH17, dark green colored, propylitic alteration, Py dissemination	R
San Jorge				
San Jorge	SM46	dacite porphyry	Qtz-porphyry, Tor-Kfs-Ser-alteration, originary potassic(?) alteration	OXT
San Jorge	SM47	sandstone (ore)	silicified arenitic sandstone w/ green-Cu-dissemination	O
San Jorge	TH76	sandstone	silicified, contain Qtz-veinlet, Qtz-vein has alteration halo	T
San Jorge	TH77	breccia	Tor-breccia, 50cm to 1m in width, Qtz-vein cut the breccia, green-Cu-stain	OP

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
San Jorge	TH78	porphyry	Qtz-veinlet does not alteration halo, contain Tor-Qtz-vein, 1mm to 5cm in width, green-Cu	T
San Jorge	TH79	porphyry	Bt: primary?	GWDT
Yalguaraz				
Yalguaraz	KY46	granite porphyry	pale grey Bt-Qtz-granite porphyry w/ Cp disseminate 0.5% vol	O
Yalguaraz	KY47	granite porphyry	pale grey Bt-Qtz-granite porphyry w/ Mo-Cp-Qtz-veinlets	R
Yalguaraz	KY48	silicified breccia	grey colored strong silicified breccia w/ Apy-Tor, leached Py and Jar stain	O
Yalguaraz	KY49	silicified sandstone	white colored strong silicified massive sandstone, same as frgment of breccia of KY48	R
Yalguaraz	SM48	dacite porphyry ore	Qtz-porphyry w/ Py-Cp-dissemination and Qtz-veinlet	OXP
Yalguaraz	SM49	Tor-breccia	Tor-breccia w/ Qtz-vein-clast, Apy-Py(-Po?) dissemination	OP
Yalguaraz	TH80	sandstone	contain Qtz-veinlet-network, Qtz-veinlet does not have alteration halo	T
Yalguaraz	TH81	porphyry	dyke into silicified sediments, Bt: primary?	WDT
Yalguaraz	TH82	sediments?	brecciation zone, strong silicified, Py Po-dissemination	P
Yalguaraz	TH83	Qtz-vein	in brecciation zone, 3 to 6cm in width, N12W35E, coarse grained Qtz, Jar-stain, Tor	G
Yalguaraz	TH84	porphyry	dyke, matrix least altered, Pl-Bt-phyric, groundmass stage fine grained Bt	WDT
Yalguaraz	TH85	diorite	fine grained, Hbl>Chl, partly Ep altered, propylitic alteration	WT
Yalguaraz	TH86	diorite'porphyry	contact showing between Bt-porphyry and Hbl-diorite	R
Paramillos Sur				
Paramillos Sur	SM58	altered sandstone	sericitized silicified arenite	XT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Paramillos Sur	SM59	silicified andesite	silicified andesite w/ Qtz-Lm veinlet up to 2mm in width	O
Paramillos Sur	SM60	silicified sandstone	intens silicified arenite w/ Qtz veinlet	T
Paramillos Sur	SM61	silicified andesite	intens silicified andesite w/ Qtz veinlet 5mm in width	TF
Paramillos Sur	SM62	silicified sandstone ore	intens silicified arenite w/ Qtz-veinlet, Cvs-stain	TF
Paramillos Sur	TH110	Ge-vein	boxwale texture	R
Paramillos Sor	TH111	Ge-vein	white color alt, Qtz-Ser alt? Alu exist?	X
Paramillos Sur	TH112	Qtz veinlet	2cm in width, hostrock: strong silicified porphyry, crease-garained Qtz w/ Ge	F
Paramillos Sur	TH113	sediments	contains many Qtz-veinlets, medium silicified	GXT
Paramillos Sur	TH114	porphyry	contact with TH113 sediments, Pl-phyryc, mafic: Hbll? Qtz veinlet	T
Paramillos Norte				
Paramillos Norte	SM56	dacite porphyry ore	dacite(?) w/ green-Cu dissemination alng Qtz-Lm-veinlet	O
Paramillos Norte	SM57	breccia chimney	angular dacite(?) fragment cemented by fine grained Hem	OP
Paramillos Norte	TH100	andesite dyke	black color, no-alteration, post-mineral dyke?, N62W, very fine grained secondary-Bt	R
Paramillos Norte	TH101	porphyry	medium-silicified, very fine grained black minerals (Hem) disseminated	P
Paramillos Norte	TH102	Spc-Qtz vein	N85W in strike, 80S in dip	G
Paramillos Norte	TH107	hydrothermal breccia	a part of matrix of hydrothermal breccia, Mag->Hem	P
Paramillos Norte	TH95	monzodiorite	fine grained, dark grey colored, fine grained secondary-Bt, many Mag	DT
Paramillos Norte	TH96	monzodiorite?	light grey colored, mafic: Hbll >Chl-Ep alt, propyritic alt	T

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Paramillos Norte	TH97	sandstone	hornfels, fine grained Bt, Ep	T
Paramillos Norte	TH98	tuff breccia	white to yellowish colored alteration, strong silicified, Jar-stain	G
Paramillos Norte	TH99	lapilli tuff	weak to medium silicified-argilized, very fineblack cubic minerals disseminated (scrach:Hem), Jar-stain	GXP
Paramillos Centro				
Paramillos Centro	KY61	diorite	medium grained diorite w/ Mag-Chl veinlets	GWT
Paramillos Centro	SM63	altered breccia	Chl-Ser-breccia cemented by Qtz-Lm, clasts are Qtz-diorite?	O
Paramillos Centro	TH115	andesite porphyry?	Ge-coating, Hbll->Chl altered	GX
Paramillos Centro	TH116	Ge-vein	float	G
Paramillos Centro	TH117	Qtz-diorite	top of the hill, breccia in brecciation zone, mafic: Hbll->partly Chl, same as TH115	R
Paramillos Centro	TH118	Chl?-Mag-matrix	matrix of the brecciation zone, fibrous green colored mineral (possibly Chl)-Mag	XT
Grupo Oro del Sur				
Grupo Oro del Sur	KY62	mudstone	strong silicified mudstone w/ Qtz-Silica stockwork	O
Grupo Oro del Sur	KY63	limonite ore	limonite ore w/ Lm-Qtz-veinlets	O
Grupo Oro del Sur	KY64	Qtz-Lm-vein (ore)	Qtz<<Lm-vein (ore), 4cm in width	O
Grupo Oro del Sur	KY65	Lm-Qtz-vein (ore)	Qtz-vein w/ Lm showing in rim, 4.5cm in width	O
Grupo Oro del Sur	SM64	brecciated sandstone	brecciated arenaite cemented by Qtz-Lm-Mag	O
Grupo Oro del Sur	SM65	brecciated sandstone	brecciated arenaite cemented by white Qtz	O
Grupo Oro del Sur	TH119	porphyry	Hbll: few, Bt: primary? Pl:Kln-alt? Qtz-veinlet	GT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Grupo Oro del Sur	TH120	porphyry	strong silicified, many Qtz veinlets, very fine grained black minerals (Hem) disseminated	R
La Negrita				
La Negrita	KY42	andesitic porphyry	weak greenish colored Mag Bt-hg Hbl Pl porphyry, *mafic change into Chl>>Ep*	GT
La Negrita	KY43	andesitic porphyry	reddish colored altered aphyric andesite porphyry in rim of KY42 or as possibly dike	GT
La Negrita	SM42	Fe-Mn-oxide-vein	Fe-Mn-oxide vein, 50cm in width w/ Qtz-veinlet in andesite	O
La Negrita	SM43	serpentinite	sheared serpentinite, light green	T
La Negrita	SM44	Fe-Mn-oxide-vein	Fe-Mn-oxide-vein, 50cm in width w/ Qtz-veinlet in andesite	O
La Negrita	TH108	Qtz-Sp-Gn-vein	2cm in width, Gn is in the central of Qtz, Sp is in the both side of Qtz	F
La Negrita	TH109	Sp-Gn-brecciated vein		R
La Negrita	TH64	carbonate-Ge-vein	Cal-Sd(?)-Ge-vein, green-Cu, Mn-oxide?	OX
La Negrita	TH65	carbonate-Ge-vein	Sd-Ge-vein, green-Cu	P
La Negrita	TH66	carbonate-Ge-vein	Sd-Ge-vein	P
La Negrita	TH67	porphyry	Hbl-Pl-phyric porhyry, Mag	WDT
La Negrita	TH68	limestone	recrystallized, Cal-vein, Lm-stain	G
La Negrita	TH69	porphyry	adjoesent to the carbonate-Ge-vein, secondary-Bt?	T
La Negrita	TH70	serpentinite		R
San Benicio				
San Benicio	KY44	siliceous rock	white colored siliceous rock as leached granite porphyry w/ Qtz-veinlets	GXF

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
San Benicio	KY45	silicified granite porphyry	whitish light grey colored silicified granite porphyry w/ Ep, minor Mag, Qtz-veinlets showing	GX
San Benicio	KY56	granite porphyry	moderate silicified granite porphyry w/ white Qtz-network	O
San Benicio	KY57	granite porphyry	white colored weakly leached granite porphyry w/ Hm-Ge stain I small vugg and Jar stain in fracture surface	G
San Benicio	KY58	leached breccia	leached breccia zone (N28E76W) w/minor green-Cu, silicified breccia rim	GX
San Benicio	SB01			G
San Benicio	SB02			GX
San Benicio	SB03			G
San Benicio	SB04			GX
San Benicio	SB05			GX
San Benicio	SB06			GWDT
San Benicio	SB07			G
San Benicio	SB08			G
San Benicio	SB09			GX
San Benicio	SB10			GX
San Benicio	SB11			G
San Benicio	SB12			T
San Benicio	SB13			G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
San Benicio	SB14			GF
San Benicio	SB15			G
San Benicio	SB16			G
San Benicio	SB17			G
San Benicio	SB18			G
San Benicio	SB19			G
San Benicio	SB20			G
San Benicio	SB21			G
San Benicio	SB22			WDT
San Benicio	SB23			X
San Benicio	SB24			GX
San Benicio	SB25			GX
San Benicio	SB26			G
San Benicio	SB27			G
San Benicio	SB28			GT
San Benicio	SB29			GX
San Benicio	SB30			WT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
San Benicio	SB31			G
San Benicio	SB32			GX
San Benicio	SB33			GX
San Benicio	SB34			G
San Benicio	SM45	silicified dacite	silicified dacite lava w/ clear coarse grained Qtz-veinlet	G
San Benicio	SM55	silicified dacite	silicified dacite w/ Qtz-veinlet, similar to SM45	G
San Benicio	TH71	porphyry?	strong silicified, Jar-stain, Qtz-veinlet-network, green-Cu-stain	GT
San Benicio	TH72	Qtz-vein	coarse grained, high temperature Qtz, float	G
San Benicio	TH73	Qtz-vein	in breccia zone, more or less 10cm in width, irregular, hegh temperature Qtz	GF
San Benicio	TH74	Qtz-vein	in silicified sediments	G
San Benicio	TH75	andesite dyke	white colored alteration, 30m in width, in silicified sediments	GT
Pampa Fria				
Pampa Fria	KY40	silicified rock	moderately silicified rock (probably shall) w/ crystaline Qtz-vein or -spot and Cu-stain	R
Pampa Fria	KY41	silicified breccia	moderately silicified breccia w/ Qtz-veinlet and green Cu-stain, NSE90	G
Pampa Fria	KY55	sandstone	dark grey silicified sandstone w/ very few amount of Py and Cu in place	G
Pampa Fria	PF-A1	composite sample		G
Pampa Fria	PF-A2	composite sample		G
Pampa Fria	PF-A3	composite sample		G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Pampa Fria	PF-A4	composite sample		0
Pampa Fria	PF-B1	composite sample		0
Pampa Fria	PF-B2	composite sample		0
Pampa Fria	PF-B3	composite sample		0
Pampa Fria	PF-B4	composite sample		0
Pampa Fria	PF-B5	composite sample		0
Pampa Fria	PF-B6	composite sample		0
Pampa Fria	PF-C2	composite sample		0
Pampa Fria	PF-C3	composite sample		0
Pampa Fria	PF-C4	composite sample		0
Pampa Fria	PF-D1	composite sample		0
Pampa Fria	PF-D2	composite sample		0
Pampa Fria	PF-D3	composite sample		0
Pampa Fria	PF-D4	composite sample		0
Pampa Fria	PF-E1	composite sample		0
Pampa Fria	PF-E10	composite sample		0
Pampa Fria	PF-E2	composite sample		0

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Pampa Fria	PF-E3	composite sample		0
Pampa Fria	PF-E35	composite sample		0
Pampa Fria	PF-E4	composite sample		0
Pampa Fria	PF-E5	composite sample		0
Pampa Fria	PF-E6	composite sample		0
Pampa Fria	PF-E7	composite sample		0
Pampa Fria	PF-E8	composite sample		0
Pampa Fria	PF-E9	composite sample		0
Pampa Fria	PF-F1	composite sample		0
Pampa Fria	PF-F2	composite sample		0
Pampa Fria	PF-F3	composite sample		0
Pampa Fria	PF-F4	composite sample		0
Pampa Fria	PF-F5	composite sample		0
Pampa Fria	PF-G2	composite sample		0
Pampa Fria	PF-G3	composite sample		0
Pampa Fria	PF-G4	composite sample		0
Pampa Fria	PF-H1	composite sample		0

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Pampa Fria	PF-H2	composite sample		O
Pampa Fria	PF-H3	composite sample		O
Pampa Fria	PF-H4	composite sample		O
Pampa Fria	PF-I1	composite sample		O
Pampa Fria	PF-I2	composite sample		O
Pampa Fria	PF-I3	composite sample		O
Pampa Fria	PF-I4	composite sample		O
Pampa Fria	PF-I5	composite sample		O
Pampa Fria	PF-J0	composite sample		O
Pampa Fria	PF-J1	composite sample		O
Pampa Fria	PF-J2	composite sample		O
Pampa Fria	PF-J3	composite sample		O
Pampa Fria	PF-J4	composite sample		O
Pampa Fria	SM41	limestone	limestone w/ green-Cu dissemination from contact to serpentinite	XT
Pampa Fria	SM51	silicified serpentinite	silicified serpentinite bearing with Qtz-Lm-vein, 2.5cm in width	O
Pampa Fria	SM52	Lm-Qtz-vein	clear white coarse grained Lm-Qtz-vein, same location of SM51	O
Pampa Fria	SM53	silicified serpentinite	silicified serpentinite, less Qtz-veinlets than SM51	T

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Pampa Fria	SM54	Qtz-vein	gray Qtz-vein, Lm dissemination, w/ 1mm clear Qtz veinlet	OTF
Pampa Fria	TH61	serpentinite	serpentinite emplace in limestone	T
Pampa Fria	TH62	Qtz-vein	N20W, 80cm in width, contain Jar-Ge-breccia, green-Cu	G
Pampa Fria	TH63	gossan	Ge, Qtz-vein, green-Cu in beside, 50m west of TH61	G
Corral				
Corral	KY04	altered limestone	whitey white colored but black pinching 4cm by 1cm, medium altered, w/ Cal veinlets, near contact for porphyry intrusive	G
Corral	SM07	vein	uncohesive powder Cal, 5cm in width	O
Corral	SM08	vein	compact Cal, 5cm in width	O
Corral	SM09	vein	compact Cal w/ dark gray rimb, 7cm in width	O
Corral	SM10	sheared limestone	fragment is less than 3mm in diameter, fault clay dominant	O
Corral	TH13	silicified limestone	yellowish to light gray colored, sheared, hardly silicified, Jar stained	G
Corral	TH14	oxide vein	black to brown colored, 10 to 15 cm in width, in silicified limestone, Ma-Gp, supergene oxide	OX
Corral	TH15	dacite porphyry	pale greenish grey colored, Pl-Qtz as phenocryst, euhedral to sub hedral, Chl-Ep (from Hbl) as mafic, propylitic alteration	WT
Corral	TH16	limestone xenolith	>40cm in diameter, completely altered limestone xenolith in dacite porphyry, Ge-Gp-Jar-white clay as supergene products	GX
Creston Amarillo				
Creston Amarillo	KY59	siliceous rock	white and yellowish brown colored argillic rock w/ grey silica white Qtz-veinlet	O
Creston Amarillo	KY60	silicified breccia	white and grey colored silicified breccia (N45W90, 1m in width) w/ Qtz-Silica network and Ja stain in siliceous andesite	OXF
Creston Amarillo	TH103	altered andesite	strong argillic, white to yellowish white altered, Qtz-Ser alteration, Alu?	X

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Creston Amarillo	TH104	unkown mineral	exist with in TH103, pale blue black color, coexist with Qtz	X
Creston Amarillo	TH105	altered andesite	strong argillic, white colored alteration, Qtz-Ser alteration., very fine grained bluish mineral (Mo?)	XP
Creston Amarillo	TH106	andesite?	medium silicified-argillic, Py-dissemination, Py coexist with Chl	G
Cerro Blanco				
Cerro Blanco	KY50	silicified rock	silicified rock, leat brecciate w/ Py dissemination and Qtz vein (N50W74SW, 4mm in width)	O
Cerro Blanco	KY51	granite porphyry	light grey colored Qtz-Ser-argillic Bt-Qtz-granite porphyry	GX
Cerro Blanco	KY52	andesite	Hbl andesite brecciated lava, least altered	GT
Cerro Blanco	KY53	argillic altered andesite	white colored Qtz-Ser? argillic rock (probably same as KY52)	GXT
Cerro Blanco	SM50	altered dacite	silicified dacite w/ Py-disemination	O
Cerro Blanco	TH87	altered andesite	white colored alteration, weak silicified, Ge-stain, Kln alt?	GX
Cerro Blanco	TH88	altered andesite	white colored alteration, Kln?, weak silicified, Op-vein 0.2 to 0.5cm in width	G
Cerro Blanco	TH89	porphyry dyke	white colored alteration, weak to medium silicified, 10m in width, N-S trend	G
Cerro Venezuela				
Cerro Venezuela	ATH301	quartz vein	brecciated Qtz vein: w=20cm,N75E, Qtz vein:w=2-5mm, veinlet stockwork, adjacent to the vein is sericite alteration	GF
Cerro Venezuela	ATH302	hydrothermal breccia	breccia f^2=1-8cm, breccia zone:w=10cm, matrix:Qtz+Goe, breccia is altered to sericite	GXD
Cerro Venezuela	ATH303	altered rock	sericite alteration. weak silicification. original rock tuff?. partly supergene kaolinite alteration.	X
Cerro Venezuela	ATH304	highy silicified rock	float. highly silicified hydrothermal breccia. limonite stained. manganese oxide stained. breccia f^1=1-8cm	G
Cerro Venezuela	ATH305	highy silicified rock	vuggy silica. alunite in vuggs. hypogene bladed alunite.	GXD

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Cerro Venezuela	ATH306	weak silicified rock	weak - medium silicified. Pl phenocryst altered to kaolinite.	GX
Cerro Venezuela	ATH307	silicified rock	weak - medium silicified. at ledge. kaolinite veinlet. goethite stained	GX
Cerro Venezuela	ATH308	silicified rock	weak - medium silicified. at ledge. kaolinite alteration	GX
Near Cerro Venezuela	ATH309	quartz vein	w=30cm. high temperature quartz. N75W. almost vertical in dipping.	G
Venezuera	AKY301	silicified breccia	brecciated silicified andesite to dacite fragments in Kao argillic matrix, Gt stained, hydrothermal origine	GX
Venezuera	AKY302	argillic andesite to dacite	very weak bluish white grey colored argillic altered andesite to dacite	GX
Venezuera	AKY303	argillic rock	pale white grey colored weak silicified argillic (Ser?) altered rock with Qtz+/-white clay veinlets	GXF
Venezuera	AKY304	silicified rock	highly silicified brecciated rock after tuff breccia(?), Jar-Hem stain	GX
Venezuera	AKY305	silicified rock	yellowish brown colored argillic fragment (Alu?) in grey highly silicified matrix	X
Venezuera	AKY306	Lm-Qz vein	N55W78NE, 3cm in width, 20m+/- in length along strike , within propyrite	G
Venezuera	ASM301	sil. breccia	wk. sil. fault breccia, green, N40E -90.	GX
Venezuera	ASM302	alt. and.	wk. sil. arg., white, probably qz-ser-(py) alt, py leached out	GX
Venezuera	ASM303	sil. r.	vein-like occurence, pale green, smooth, ebnoconidal fracture, w/ very fine grained py diss., 15-20cm wd., N60W -90.	GX
Venezuera	ASM304	alt. and.	probably qz-ser-(py) alt., w/ limo. - qz veinlet	GX
Venezuera	ASM305	sil. r.	vein-like occurence of 1m wd., ledge extending N40W -90, dense py-qz, py fine grained, dk gray, brecciated, w /qz veinlet up to 1mm	GX
Venezuera	ASM306A	qz. v	hosted in andesitic pyroclastics, N45W -90	GF
Venezuera	ASM306B	alt. fb	andesitic, probably qz-ser alt	DT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Portezuelo de Amarillo				
Portezuelo de Amarillo	ATH320	white clay altered rock	W-M silicified, white clay sericite or kaolinite?	GX
Portezuelo de Amarillo	ATH321	brecciated silicified vein	w=10-30cm, N40W trend, corresponds to ridge elongation, white clay breccia sericite or alunite alteration?	GX
Portezuelo de Amarillos	ATH318	silicified vein	highly silicified vein, w=10-30cm, trend N6W, original rock lapilli tuff	GX
Portezuelo de Amarillos	ATH319	silicified vein	highly silicified vein, w=2-10cm, trend N45E, 65NW dipping	G
Portezuelo Amarillo	AKY309	Py silica vein	N15E65E, 2 to 5 cm in width, 1 to 2% dissemination of Py in dark greenish grey colored altered andesitic lapilli tuff	G
Portezuelo Amarillo	AKY310	argillic rock	greenish light grey colored argillic rock after tuff(?), 1 to 2% diss. of Py, weak supergene altered	GX
Portezuelo de Amarillo	ASM312	alt. and	pl phenoc. rich, mafic out, py diss, qz veinlet	GX
Potrerillos				
Potrerillos	ATH322	silicified white clay altered rock	sericite or kaolinite alteration? W-M silicified. Py weak dissemination.	GXD
Potrerigeous	ASM313	rhyolite	dyke, black, very fine grained, aphanitic, N60E, -90	G
Potrerigeous	ASM314	alt dc.	lava dome, qz-pl-biot-hb, biot replaced by ser	XDT
Samoso				
Samoso	ASM315A	rhyolite	lava dome, w/ flow band	
Samoso	ATH323	rhyolite	flow structure developped, silicified?	T
Samoso	ATH324	quartz vein	float, w=2cm, Qtz banding<1mm	G
Vicunita (El Salado)				
Vicnita	AKY314	argillic rock	white colored acidic argillic altered dacite porphyry to granite porphyry	GX

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Vicunita	AKY335	andesite to dacite porphyry	grey colored, minor Qtz phenocryst, Bt-Hem as alteration mineral	TR
Vicunita (El Salado)	ATH387	Qtz porphyry?	ridge, sericite alteration, jarosite stained.	GX
Vicunita (El Salado)	ATH388	Bt Fd porphyry	Bt, Pl, Hbl phyric porphyry, very few Qtz phenocryst, this is quite different from the porphyry that is host rock of K-silicate alteration, Bt fresh, Hbl smectite alt? Pl fresh.	WDT
Vicunita (El Salado)	ATH389	Qtz Fd porphyry	Qtz, Fd, Bt phyric porphyry, very coarse gr. Qtz, Bt fresh, crack face: very fine gr. hematite+hydrothermal Bt.	T
Vicunita (El Salado)	ATH390	Qtz vein with Qtz porphyry	Qtz vein has alteration halo, w=2cm	GX
Vicunita (El Salado)	ATH391	Qtz porphyry	K-silicate alteration, with fine gr. hematite, "A vein", fine grained greenish biotite, green Cu oxide stained	GXT
Vicunita (El Salado)	ATH392	monzonite	in K-silicate alt. porphyry.	
Vicunita (El Salado)	ATH393	quartz vein	"A vein"? coarse grained Qtz vein, in K-silicate alteration with Cu oxides	GF
Vicunita (El Salado)	ATH394	K-silicate alt. Qtz porphyry	Qtz veinlet stockwork, high density of Qtz veinlet with magnetite dissemination, in K-silicate alteration.	GXDT
Vicunita (El Salado)	ATH395	magnetite-Qtz vein	w=5cm, N80E	GPF
Vicunita (El Salado)	ATH396	hydrothermal breccia	matrix part: geothite, biotite, breccia: subangular porphyry	G
Vicunita (El Salado)	ATH397	drill cuttings	Bt Qtz porphyry, K-silicate alteration, magnetite dissemination, weak dissemination of chalcopyrite and bornite.	GP
Vicunita alteration	ASM348	altered dacite	light gray to white, qz-ser-(py) alt., py leached out, qz phenoc: 3-10mm, porphyritic tex, original assem: qz-pl-biot, pl collapse to clay	GXDT
Vicunita alteration	ASM349A	qz. vein	1.5cm wd., including f.g. greenish transparent biot, green Cu staining, qz: c.g. clear	O
Vicunita alteration	ASM349B	altered dacite	host of 349B, 2ndary greenish fine grained biot, potassic alt, K-spar ?, lacking mgt	GXT
Vicunita alteration	ASM350	altered dacite	w/ qz veinlet, 4mm wd. network, possibly phyllic overprints to potassic	GX
Vicunita alteration	ASM351A	altered dacite	slightly silicified, possibly phyllic overprints to potassic, host of 351B	GXT

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analysis
Vicuñita alteration	ASM351B	qz. vein	1 5-2cm wd., N50E 90, qz. c g., comb texture, limonite stained	G
Vicuñita alteration	ASM352	altered dacite	qz ser py alt, py remaining, qz veinlet of 1mm wd., originally qz pl biot, biot partially replaced by white mica	GX
Pastran				
Pastran	AKY341	silicified fault(?) breccia	silicified fragments of sandstone in limonitic matrix in contact between sandstone and granite	G
Pastran (W)	ASM360	scheelite ore	scheelite stringer in mudstone, N30W 90, from stockpile	OX
Andesite ledge				
Andesite ledge	SM01	vein	Cal-Bet-Qtz-vein, comb exture, 10cm in width	O
Cerro Negro				
Cerro Negro	KY01	sandstone	white colored, medium grained, quartz akenitic, weak altered, Lm (Jar Hem) veinlets 2mm in width	R
Cerro Negro	KY02	sandstone	reddish colored, very fine grained w/ Cal-Qtz veinlet, N20W strike, 90 dip	G
Cerro Negro	KY02a	calcite quartz veinlet	Cal-Qtz veinlet within sandstone, KY02	G
Cerro Negro	KY03	propyrite or low grade skarn	dark green colored, coarse sized Chl-Ep, in calcalinos very fine grained sandstone interbed in sandstone (KY01)	GT
Cerro Negro	SM04	vein	coarse grained reddish Qtz-vein, 5cm in width w/ Cal-veinlet	O
Cerro Negro	SM05	andesite	propyritic alteration	T
Cerro Negro	TH01	Calcite vein	3 to 2 5mm in width, N10Estrike, 40E dip, incl. host rock breccia, matrix; Sd-Cal, host; propyritic altered andesite dyke	G
Cerro Negro	TH02	Quartz vein	25cm in width, float in aplitic dyke, Sd-Cal in druse	G
Cerro Negro	TH03	Cal-Silica vein	7cm in width, N15E strike, 90 dip, hostrock; propyritic altered andesite dyke	G
Cerro Negro	TH04	Cal vein	45cm in width, N10E strike, host rock; Devonian sandstone, continue more than 100m	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Granite				
Granite	SM06	sand stone	weathered, pale reddish - greenish white	XT
Granite	TH05	amphibolite schist	black schist, silicified by contact metamorphosed by granite, amphibolite change into Bt. Pre-Cambrian?	T
Granite	TH06	Hbl-Bt granite	medium to coarse grained granite, mafic; Bt>Hbl, felsic; Kfs-Pl-Qtz, Kfs; anhedral >2cm in diameter, include host rock shcist	WDT
Alumbrera de Bajo				
tertiary intrusive near Los Opcous	TH47	granite	Tertiary intrusive, fine to medium grained Bt granite, no alteration	WT
camp location				
camp location	ATH250	Cu-oxide	brochantite and alunite	XT
La Alumbrera de Bajo	KY05	granodiorite	float of granodiorite w/ clear white thine layered Qtz-vein, possively Tertiary plutonic rock	G
La Alumbrera de Bajo	SM11	Lm-silicified rock	dark reddish Lm rock w/ silica veinlet	O
Quebrada de Conconta				
Conconta	ASM343	granite	qz-K-fel-pl-biot, weathered, pinkish, identified as h. alteration on image	XT
Quebrada de Conconta	ATH379	granite	coarse grained. Kf pinkish. large Qtz grain. weak weathering. Conconta Granite	XT
Quebrada de Conconta	ATH380	dacitic dike	white - pinkish color. Qtz phenocryst. float.	X
Quebrada de Potreros de Pancha				
Pancha	ASM344	granite	qz-K-fel-pl-biot, weathered, pinkish, identified as h. alteration on image	XT
Pancha	ASM345	fault gouge + qz. vein	qz veining in fault, qz vein: clear-drusy-very coarse grained, unidentified greenish clay in gouge	X
Quebrada de Los Potreros de Pancha	ATH381	granite	fine grained Bt granite. Fd phyric. later stage of Conconta Granite?	WT
Quebrada de Los Potreros de Pancha	ATH382	shale	hornfels. contact between Conconta Gr. and Carboniferous sediments. Bt hornfels.	T

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Leonardo				
Leonardo	ATH407	magnetite-epidote vein	in granite, vein exist in contact between magnetite vein and granite.	
Leonardo	ATH408	magnetite vein	massive, many gas cavities.	
Leonard (Fe)	ASM358	granite	biot replaced by white mica, originally qz Kspar-pl-biot, including mgt veinlet with epidote selvage	T
Leonard (Fe)	ASM359	magnetite ore	fine grained massive ore, vein trending N30W 90, of 1.5m wd., from mining site	C
Leonardo	AKY340	Mag vein	fine garined Py dissemination layer in places(?)	GR
Southeast of Margarita				
4650m alteration zone	ATH425	rhyodacite	dike rock? Fd, Qtz phyric, pale greenish gray, mafic minerals: "chloritic alte.	WT
4651m alteration zone	ATH426	rhyodacite	same rock as ATH425, silicified alte.	GX
4652m alteration zone	ATH427	porphyry	dike rock? Fd, Qtz phyric, sericite alteration	GXD
4653m alteration zone	ATH428	porphyry	relatively fresh, Qtz, Fd phyric porphyry, same as the porphyry at Ranchillos and Pastos Largos	T
4654m alteration zone	ATH429	rhyolite	pale green color, propylitic alteration? flow banding	X
Silicification beside Margarita	AKY359a	altered dacite porphyry	silicified and weak argillic altered dacite porphyry (marginal portion of porphyry intrusive?)	X
Silicification beside Margarita	AKY359b	Qtz vein	part of Qtz-stockwork in rhyolitic or dacite porphyry, 1cm in width	GF
Silicification beside Margarita	AKY360	Cal-Qtz vein	Ox stained, occurrence of lattice Qtz habit	G
silicification beside Margarita	ASM380	altered sandstone ?	granular silica, altered rhyolite ?	T
silicification beside Margarita	ASM381	altered rhyolite	brecciated, silicified rhy clast of 2-3cm cemented by qz and cc, w/ subtle limo. stain	G

Eastern Andes Area sample list (Phase I and Phase II)

Survey area / locality	sample	rock type	description	analyses
Banos del Gollete				
Banos del Gollete	ASM418	siliceous sinter	from mound w/ diameter of 30m, clear to dark gray layer laminated	G

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
El Potro																				
ATH229	6	<0.2	0.47	<2	370	<0.5	<2	0.05	<0.5	<1	133	36	3.27	<10	<3	0.30	20	0.03	90	5
ATH230	6	<0.2	0.44	<2	140	<0.5	<2	0.03	<0.5	<1	91	7	3.00	<10	<3	0.59	10	0.03	5	1
ATH232	63	<0.2	0.29	<2	330	<0.5	<2	0.02	<0.5	<1	90	7	1.62	<10	<3	0.36	10	0.01	5	1
ATH232	3	<0.2	0.34	<2	95	<0.5	<2	0.06	<0.5	<1	122	61	0.71	<10	<3	0.21	30	0.01	25	1
ATH233	9	0.2	0.28	<2	100	<0.5	<2	0.07	<0.5	<1	110	3	0.51	<10	<3	0.40	<10	<0.01	10	4
ATH234	76	<0.2	0.37	2	55	<0.5	2	0.11	<0.5	1	130	31	2.26	<10	<3	0.28	20	0.02	25	10
ATH235	4	<0.2	0.43	4	70	<0.5	<2	0.05	<0.5	<1	130	65	0.73	<10	<3	0.32	30	0.01	5	57
ATH236	27	0.2	0.26	<2	170	<0.5	<2	<0.01	<0.5	<1	140	74	0.49	<10	<3	0.22	10	0.01	10	31
ATH237	9	0.2	0.25	<2	150	<0.5	<2	0.01	<0.5	<1	98	70	0.35	<10	<3	0.19	10	0.01	5	67
ATH238	34	0.2	0.65	<2	80	<0.5	<2	0.05	<0.5	<1	146	93	0.46	<10	<3	0.26	30	0.02	20	135
ATH239	31	<0.2	1.84	2	80	0.5	<2	0.02	<0.5	2	62	329	1.59	<10	<3	0.76	30	0.04	100	24
ATH240	62	<0.2	0.35	10	330	<0.5	<2	0.01	<0.5	<1	130	395	0.48	<10	<3	0.17	30	0.02	15	499
ATH242	8	<0.2	0.36	<2	10	<0.5	<2	0.03	<0.5	<1	155	56	0.01	<10	<3	0.29	30	0.01	10	6
Criollita																				
AMY350	30	7.4	0.05	6	20	<0.5	<2	0.43	<0.5	1	158	7	0.69	<10	<3	<0.01	<10	0.56	395	1
AMY351	29	9.6	0.04	14	<10	<0.5	<2	0.58	<0.5	21	9	2,320	7.07	<10	<3	<0.01	<10	33.15	855	<1
ASM361	35	0.2	1.37	2	30	<0.5	<2	3.22	<0.5	34	104	911	2.34	<10	<3	0.16	<10	1.32	390	<1
ASM362	30	<0.2	0.26	16	60	<0.5	<2	10.50	<0.5	39	75	83	6.28	<10	<3	0.33	<10	6.08	1,135	<1
ASM363	75	2.8	0.67	20	<10	<0.5	<2	13.75	<0.5	8	31	1,965	10.05	<10	<3	<0.01	<10	8.32	1,140	<1
ASM367	<5	<0.2	0.01	2	<10	<0.5	<2	0.49	<0.5	<1	110	7	0.30	<10	<3	<0.01	<10	0.16	35	1
ASM368	<5	<0.2	0.05	6	30	<0.5	<2	8.56	<0.5	1	135	84	0.46	<10	<3	<0.01	<10	0.35	305	<1
ASM369	<5	<0.2	0.06	20	30	<0.5	<2	7.72	<0.5	20	88	35	0.87	<10	<3	<0.01	<10	1.50	640	<1
ATH410	55	0.8	2.20	42	30	<0.5	<2	0.66	<0.5	9	317	3,050	6.42	<10	<3	0.18	<10	0.48	1,440	<1
ATH411	195	6.4	0.28	26	30	<0.5	Error	0.67	<0.5	8	309	14,900	>15.00	<10	<3	0.01	<10	0.33	90	<1
Rio Blanco																				
ATH245	55	0.2	0.36	72	450	<0.5	3	0.07	<0.5	<1	132	35	2.92	<10	<3	0.27	<10	<0.01	5	2
ATH246	35	0.2	0.19	<2	50	<0.5	<2	0.30	<0.5	<1	113	2	0.16	<10	<3	0.01	<10	0.01	5	<1
ATH247	35	0.2	0.01	8	50	<0.5	<2	0.04	<0.5	<1	206	5	0.35	<10	3	0.06	<10	<0.01	35	4
ATH248	8	<0.2	0.27	12	30	<0.5	<2	0.10	<0.5	<1	80	<4	0.96	<10	<3	0.14	50	0.02	65	<1
La Vicunita																				
ATH221	18	0.6	0.34	2	30	<0.5	<2	0.03	<0.5	<1	35	2	0.53	<10	<3	0.22	<10	0.01	100	<1
ATH222	19	<0.2	0.70	2	60	0.5	<2	0.05	1.0	3	25	41	1.28	<10	<3	0.38	20	0.38	1,790	1
ATH224	270	1.6	0.41	<2	130	<0.5	<2	0.06	<0.5	<4	45	2	0.36	<10	<3	0.18	10	0.03	20	<1
ATH225	170	<0.2	0.34	<2	20	<0.5	<2	0.03	<0.5	<3	58	4	0.34	<10	<3	0.15	<10	0.01	15	3
ATH226	24	0.6	1.38	348	<10	0.5	2	0.03	0.5	3	8	572	15.00	<10	3	0.01	<10	0.04	165	13
ATH227	225	3.6	0.30	38	30	<0.5	<2	0.02	<0.5	2	203	11	0.84	<10	<3	0.05	<10	<0.01	50	3
La Olita																				
ATH202	5	<0.2	0.73	<2	30	<0.5	3	0.01	<0.5	<4	48	3	2.18	<10	<3	0.22	10	0.33	20	<4
ATH203	350	<0.2	0.87	<2	60	<0.5	2	0.04	<0.5	<3	55	4	0.60	<10	<3	0.27	<10	0.32	25	<4
ATH204	2	0.2	0.08	2	20	<0.5	<2	0.33	<0.5	<2	156	5	0.36	<10	<3	0.03	<10	0.04	40	3
ATH205	3	<0.2	0.27	<2	50	<0.5	<3	0.35	<0.5	<4	63	3	0.09	<10	<3	<0.01	<10	0.02	40	<1
ATH206	3	0.2	1.57	32	20	1.5	2	0.16	0.5	2	14	47	>5.00	<10	<1	0.37	20	0.05	90	1
ATH208	98	15.8	0.24	480	230	<0.5	3	0.01	<0.5	<1	236	54	5.33	<10	<1	0.28	<10	0.02	45	32
ATH209	2,730	54.2	0.34	164	20	<0.5	3	0.03	<0.5	<1	149	53	2.69	<10	2	0.21	<10	0.01	65	5
ATH210	14	0.6	3.07	22	30	<0.5	<2	1.11	3.5	11	47	31	4.40	<10	<1	0.04	<10	1.65	1,620	<1
ATH211	26	0.2	0.23	<2	<10	<0.5	<2	0.13	<0.5	<1	97	3	0.27	<10	<1	0.02	<10	0.01	15	<1
ATH212	2,980	71.2	0.09	138	150	<0.5	34	0.03	<0.5	1	247	125	0.47	<10	<1	0.06	<10	<0.01	20	2

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
El Potro													
ATH229	0.09	2	260	2	<2	<1	24	<0.01	<10	<10	2	<10	13
ATH230	0.15	1	260	2	<2	<1	16	<0.01	<10	<10	1	<10	<7
ATH231	0.05	1	160	2	<2	<1	8	<0.01	<10	<10	3	<10	<7
ATH232	0.09	1	300	4	<2	<1	10	<0.01	<10	<10	3	<10	6
ATH233	0.02	1	70	8	<2	<1	4	<0.01	<10	<10	3	<10	<2
ATH234	0.21	3	120	2	<2	<1	8	<0.01	<10	<10	<3	<10	2
ATH235	0.02	1	40	<2	2	<1	4	<0.01	<10	<10	<3	<10	2
ATH236	0.03	3	30	2	2	<1	2	<0.01	<10	<10	3	<10	2
ATH237	0.03	1	30	2	<2	<1	6	<0.01	<10	<10	3	<10	<2
ATH238	0.03	2	60	2	<2	<1	6	<0.01	<10	<10	2	<10	2
ATH239	0.06	5	390	<2	<2	6	24	0.11	<10	<10	<3	<10	16
ATH243	0.07	2	40	6	<2	<1	6	<0.01	<10	<10	3	<10	6
ATH242	0.02	1	30	<2	<2	<1	1	<0.01	<10	<10	<3	<10	2
Criollita													
AMY350	<0.01	5	<10	2	<2	<1	9	<0.01	<10	<10	4	<10	22
AMY351	<0.01	<1	400	2	<2	<1	1	<0.01	<10	<10	3	<10	110
ASM361	0.09	51	490	52	<2	8	61	0.14	<10	<10	73	<10	50
ASM362	0.01	35	250	18	2	6	35	0.01	<10	<10	32	<10	16
ASM363	<0.01	5	<10	12	<2	<1	8	<0.01	<10	<10	19	40	53
ASM367	<0.01	2	610	<2	<2	<1	2	<0.01	<10	<10	3	<10	6
ASM368	<0.01	4	1,210	2	<2	<1	9	<0.01	<10	<10	5	<10	24
ASM369	0.01	40	740	8	<2	<1	26	<0.01	<10	<10	33	<10	68
ATH410	<0.01	51	180	64	<2	15	43	0.50	<10	<10	143	<10	49
ATH411	<0.01	17	Error	58	<2	1	3	0.02	<10	<10	36	<10	20
Rio Blanco													
ATH245	0.03	3	<10	56	<2	<1	8	<0.01	<10	<10	6	<10	18
ATH246	<0.01	1	<10	10	<2	<1	3	<0.01	<10	<10	1	<10	<2
ATH247	0.01	4	100	2	2	<1	11	<0.01	<10	<10	2	<10	<2
ATH248	0.03	1	40	6	2	<1	5	0.01	<10	<10	1	<10	8
La Vicunita													
ATH221	0.02	<1	<10	8	<2	<1	1	<0.01	<10	<10	<1	<10	18
ATH222	0.30	1	140	312	<2	<1	17	<0.01	<10	<10	1	<10	262
ATH224	0.04	<1	200	154	<2	<1	99	<0.01	<10	<10	<1	<10	16
ATH225	0.04	1	30	6	<2	<1	4	<0.01	<10	<10	1	<10	6
ATH226	0.30	<1	3,770	16	<2	1	7	<0.01	<10	10	24	10	350
ATH227	0.01	3	160	270	2	<1	31	0.02	<10	<10	2	<10	38
La Olita													
ATH202	0.25	<1	340	92	<2	<1	24	<0.01	<10	<10	10	<10	6
ATH203	0.16	3	190	228	<2	1	19	<0.01	<10	<10	12	<10	16
ATH204	0.01	3	70	72	<2	<1	10	<0.01	<10	<10	2	<10	2
ATH205	0.01	1	190	14	<2	<1	75	<0.01	<10	<10	3	<10	2
ATH206	2.52	<1	3,930	58	<2	3	86	<0.01	<10	<10	174	<10	176
ATH208	0.17	6	240	22	44	1	36	<0.01	<10	<10	56	<10	22
ATH209	0.20	3	760	6,570	80	<1	26	<0.01	<10	<10	65	<10	28
ATH210	0.13	6	700	66	<2	6	55	0.33	<10	<10	72	<10	110
ATH211	0.01	1	60	36	<2	<1	11	<0.01	<10	<10	2	<10	6
ATH212	<0.01	6	40	56	740	<1	9	<0.01	<10	<10	3	<10	12

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
Las Tamborias																				
ATH213	45	0.4	0.39	12	30	<0.5	<2	0.45	<0.5	<1	46	7	0.91	<10	<1	0.05	<10	0.05	20	<1
ATH214	30	0.6	0.48	10	43	<0.5	<2	0.58	<0.5	<1	35	14	1.72	<10	<1	0.16	<10	0.09	30	<1
ATH216	2,920	393.0	0.22	68	170	<0.5	2	0.52	<0.5	<1	226	66	2.95	<10	<1	0.52	<10	0.01	310	6
ATH218	45	0.2	0.45	28	210	<0.5	<2	0.61	<0.5	<1	26	6	2.61	<10	<1	0.66	<10	0.06	15	<1
Pastos Largos																				
ARY354	<5	0.2	0.46	32	10	<0.5	<2	0.10	<0.5	6	93	9	1.14	<10	<1	0.11	20	0.01	375	<1
ARY355	<5	<0.2	1.57	6	<10	<0.5	<2	3.65	<0.5	7	143	8	2.24	<10	<1	0.08	20	1.07	780	<1
ARY356	20	0.2	0.70	60	80	<0.5	<2	0.13	<0.5	3	161	4,150	0.88	<10	<1	0.06	<10	0.22	450	25
ASH374	<5	0.6	0.06	4	<10	<0.5	2	>15.00	<0.5	<1	46	6	0.15	<10	<1	0.02	<10	0.01	915	<1
ASH375	<5	<0.2	0.98	34	30	<0.5	<2	0.19	<0.5	6	138	925	2.92	<10	<1	0.32	30	0.49	795	1
ASH376	<5	0.6	0.28	6	<30	<0.5	2	13.50	<0.5	3	20	16	0.65	<10	<1	0.07	<10	0.14	965	<1
ASH377	<5	<0.2	0.37	15	40	<0.5	<2	0.21	<0.5	3	148	202	1.07	<10	<1	0.11	<10	0.14	305	1
ASH378	20	1.0	0.01	64	20	0.5	4	2.50	0.5	8	149	253	9.57	<10	<1	0.03	<10	0.06	195	17
ATH420	<5	0.4	0.08	8	30	<0.5	2	>15.00	2.0	<1	50	26	0.15	<10	<1	0.01	<10	0.04	830	<1
ATH423	<5	2.6	0.47	22	60	0.5	2	0.26	<0.5	3	151	1,815	3.55	<10	<1	0.13	10	0.17	390	8
Ranchillos																				
ARY352b	30	2.8	3.00	3,830	200	0.5	<2	0.22	<0.5	<1	90	38	8.91	<10	<1	0.40	10	0.15	85	1
ARY352c	50	0.8	0.88	792	110	<0.5	<2	0.30	<0.5	1	82	35	5.96	<10	<1	0.27	20	0.14	125	1
ARY353b	45	0.2	0.56	1,000	70	<0.5	<2	0.04	<0.5	<1	192	6	0.73	<10	<1	0.52	<10	0.09	25	1
ASH370	55	<0.2	0.92	3,650	150	0.5	<2	0.13	0.5	<1	22	34	>15.00	<10	<1	0.36	<10	0.06	200	<1
ASH372	60	<0.2	0.57	64	110	0.5	<2	0.36	<0.5	6	77	35	8.04	<10	<1	0.32	30	0.46	325	<1
ASH373	35	<0.2	1.34	1,845	60	0.5	<2	0.04	<0.5	<1	65	241	>15.00	<10	<1	0.35	<10	0.09	65	<1
ATH413	65	<0.2	1.42	650	160	0.5	<2	0.82	0.5	<1	65	85	3.09	<10	<1	0.58	40	0.32	50	3
Laguna de las Huaycas																				
ARY362	<5	<0.2	0.01	16	40	<0.5	<2	0.05	<0.5	<1	3	3	1.56	<10	<1	<0.01	<10	<0.01	5	1
ASH382	20	<0.2	0.53	692	30	2.0	<2	0.04	<0.5	5	216	45	8.32	<10	<1	<0.01	<10	0.01	350	26
ATH431	<5	<0.2	3.29	60	20	<0.5	<2	0.06	<0.5	<1	87	11	3.16	<10	<1	0.48	<10	<0.01	5	8
ATH432	<5	<0.2	3.76	26	20	<0.5	<2	0.05	<0.5	<1	69	19	8.20	<10	<1	0.43	<10	<0.01	15	<1
ATH434	<5	<0.2	0.59	10	<10	<0.5	<2	0.01	<0.5	1	518	11	1.92	<10	<1	0.01	<10	<0.01	25	3
ATH436	<5	0.2	0.74	48	30	<0.5	<2	0.05	<0.5	<1	149	35	4.33	<10	<1	0.15	<10	<0.01	10	6
Las Aguaditas																				
ARY339	50	32.6	0.16	4	<10	<0.5	<2	0.34	<0.5	1	164	7	0.80	<10	<1	0.01	<30	0.04	20	1
ASH356	25	<0.2	0.29	10	50	<0.5	<2	0.24	<0.5	<1	369	29	0.36	<10	<1	0.05	<30	0.04	65	<1
ATH404	80	0.2	1.63	248	50	<0.5	<2	0.56	<0.5	<1	74	20	2.66	<10	<1	0.08	<30	0.05	35	9
Halycia																				
TH09	20	0.6	0.68	32	70	<0.5	<2	0.32	73.0	9	6	6	2.36	<10	<1	0.25	10	0.13	495	1
TH32	<5	1.6	0.11	64	<30	<0.5	<2	>15.00	0.5	<1	32	49	0.86	<10	<1	0.05	<10	0.19	380	1
Las Sapilos																				
SH02	<5	<0.2	0.50	96	200	<0.5	2	0.25	<0.5	<1	63	26	5.64	<10	<1	0.05	30	0.10	35	2
SH03	<5	<0.2	0.63	8	40	0.5	<2	0.07	<0.5	3	72	46	2.43	<10	<1	0.25	<10	0.05	180	8
La Flecha																				
ARY363	10	<0.2	0.43	10	<10	<0.5	<2	2.60	<0.5	<1	60	6	0.21	<10	<1	0.05	<30	<0.01	10	1
ARY364	<5	<0.2	0.44	54	<10	<0.5	<2	1.03	<0.5	<1	82	5	0.36	<10	<1	0.07	<10	<0.01	5	1
ARY366	<5	<0.2	0.36	8	10	<0.5	<2	2.09	<0.5	5	63	6	1.02	<10	<1	0.02	<10	<0.01	5	<1
ARY365	<5	<0.2	2.72	36	10	0.5	<2	0.73	<0.5	14	25	41	5.09	<10	<1	0.05	<10	2.00	8,095	<1

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
Las Tamborias													
ATH213	0.16	1	80	18	<2	<1	25	0.05	<10	<10	2	<10	18
ATH214	0.11	<1	510	22	2	1	19	0.07	<10	<10	10	<10	14
ATH216	0.03	6	610	>,510	<2	<1	79	<0.01	<10	<10	12	<10	30
ATH218	0.06	1	140	56	<2	1	37	<0.01	<10	<10	10	<10	8
Pastos Largos													
ARY354	0.02	7	250	26	<2	2	20	<0.01	<10	<10	16	<10	34
ARY355	0.03	16	350	16	<2	3	52	0.12	<10	<10	19	<10	140
ARY356	<0.01	1	20	346	<2	<1	7	<0.01	<10	50	35	30	48
ASH374	0.01	1	30	63	<2	<1	28	<0.01	<10	<10	4	<10	<2
ASH375	<0.01	5	150	18	<2	<1	12	<0.01	<10	<10	16	<10	102
ASH376	0.01	3	170	68	<2	<1	10	0.01	<10	<10	12	<10	34
ASH377	<0.01	3	50	10	<2	<1	4	<0.01	<10	<10	6	10	34
ASH378	<0.01	3	70	1,450	6	<1	8	<0.01	<10	20	58	<10	208
ATH420	0.02	1	90	94	<2	<1	56	<0.01	<10	<10	13	10	544
ATH421	0.01	2	50	140	<2	<1	13	<0.01	<10	<20	19	<30	50
Ranchillos													
ARY352b	0.03	1	470	16	6	3	16	<0.01	<10	<30	22	<30	102
ARY352c	0.01	1	310	16	8	0	30	<0.01	<10	<10	13	<10	126
ARY353b	0.02	1	210	10	4	<1	7	0.01	<10	<10	3	<10	8
ASH370	<0.01	4	840	44	8	1	12	<0.01	<10	<10	26	<20	420
ASH371	0.03	26	460	20	2	2	27	0.01	<10	<10	30	<10	156
ASH373	<0.01	3	1,070	10	2	6	8	0.03	<10	<10	36	<10	164
ATH413	<0.01	1	140	20	4	1	16	<0.01	<10	<30	13	<10	36
Laguna de las Huaycas													
ARY361	<0.01	<1	300	<2	<2	2	75	<0.01	<20	<30	68	<10	<2
ASH382	<0.01	9	590	6	30	19	9	<0.01	<30	<30	162	<10	24
ATH431	0.06	<1	190	4	<2	2	311	<0.01	<10	<20	107	<10	<2
ATH432	0.09	<1	80	4	<2	1	75	<0.01	<10	<10	21	<10	<2
ATH434	<0.01	3	<30	2	<2	1	4	<0.01	<10	<10	66	<30	<2
ATH436	0.05	<1	70	4	<2	2	76	0.01	<10	<10	120	<30	<2
Las Aguaditas													
ARY339	0.03	1	320	6	30	<1	25	<0.01	<30	<10	5	<10	12
ASH356	0.01	2	780	2	<2	<1	65	<0.01	<30	<10	5	<10	6
ATH404	0.19	<1	260	116	<2	1	110	<0.01	<10	<10	26	<10	18
Halycia													
TH09	<0.01	6	580	352	<2	8	17	<0.01	<10	<30	7	<20	8
TH32	<0.01	8	40	240	2	2	208	<0.01	<30	<30	5	<30	636
Las Sapilos													
SH02	0.08	<8	350	<2	<2	3	126	<0.01	<10	<10	12	<10	6
SH03	0.01	12	170	<2	<2	3	48	<0.01	<10	<10	9	<30	26
La Flecha													
ARY362	0.09	1	60	2	<2	<1	78	<0.01	<10	<30	6	<10	<2
ARY363	0.13	1	140	4	<2	<1	78	<0.01	<10	<10	6	<10	<2
ARY364	0.05	2	30	8	<2	<1	103	<0.01	<10	<10	2	<10	<2
ARY365	0.04	5	1,590	24	<2	8	35	<0.01	<10	<10	51	<10	124

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
ARY366	<5	<0.2	0.26	8	10	<0.5	<2	0.05	<0.5	11	57	9	3.15	<10	<1	0.06	<10	0.01	10	1
ARY367	<5	<0.2	0.43	8	<10	<0.5	<2	0.20	<0.5	41	72	7	0.30	<10	<1	0.09	<10	<0.01	15	1
ARY368	<5	<0.2	0.55	4	<10	<0.5	<2	0.26	<0.5	<1	67	1	0.31	<10	<1	0.09	<10	<0.01	<5	1
ASM385	<5	<0.2	0.34	50	30	<0.5	<2	0.20	<0.5	<1	57	2	0.28	<10	<1	0.06	<10	<0.01	10	<1
ASM386	35	0.4	0.34	8	<10	<0.5	2	2.66	<0.5	<1	22	1	0.38	<10	<1	0.01	<10	0.03	<5	<1
ASM387	10	0.8	0.37	24	50	<0.5	2	0.19	<0.5	8	68	15	3.57	<10	<1	0.13	<10	0.02	10	6
ASM388	<5	0.2	0.40	24	30	<0.5	2	0.43	<0.5	3	64	74	2.06	<10	<1	0.23	<10	0.06	55	<1
ASM389	10	0.2	1.43	38	<10	<0.5	<2	0.51	<0.5	<1	3	<1	0.50	<10	<1	0.19	<10	<0.01	<5	<1
ASM390	10	<0.2	0.59	6	20	<0.5	<2	0.22	<0.5	<1	162	3	0.63	<10	<1	0.01	<10	0.03	15	3
ATH437	10	<0.2	0.42	10	20	<0.5	<2	0.76	<0.5	<1	92	7	0.23	<10	<1	0.10	<10	<0.01	5	1
ATH438	375	0.2	0.88	526	<10	<0.5	<2	0.52	<0.5	8	106	27	0.97	<10	<1	0.16	<10	0.03	30	1
ATH439	<5	<0.2	0.70	16	20	<0.5	<2	3.13	<0.5	9	104	17	0.89	<10	<1	0.07	<10	<0.01	20	3
ATH440	10	<0.2	0.78	28	30	<0.5	<2	0.26	<0.5	<1	42	15	2.18	<10	<1	0.14	<10	0.04	35	3
ATH441	10	<0.2	0.82	56	10	<0.5	<2	0.09	<0.5	3	49	20	0.84	<10	<1	0.10	<10	0.01	35	4
ATH442	<5	<0.2	0.28	32	<10	<0.5	<2	0.52	<0.5	3	206	7	0.36	<10	<1	0.04	<10	<0.01	50	2
ATH443	<5	0.2	0.71	166	<10	<0.5	<2	0.26	<0.5	<1	110	20	0.84	<10	<1	0.10	<10	<0.01	20	<1
ATH444	<5	<0.2	2.49	58	40	<0.5	<2	0.47	1.0	33	8	2,120	3.05	<10	<1	0.33	<10	0.12	115	<1
Bordo Atravezado																				
ARY369	<5	<0.2	0.55	8	50	<0.5	<2	0.27	<0.5	<1	95	7	0.46	<10	<1	0.08	40	0.59	345	1
ARY370	160	0.2	0.73	8	70	<0.5	<2	0.05	<0.5	<1	90	326	12.95	10	<1	0.16	<10	0.01	5	<1
ASM391	20	<0.2	0.40	22	40	<0.5	2	0.07	<0.5	<1	31	5	6.06	<10	<1	0.24	<10	0.01	5	2
ATH251	5	0.2	0.45	32	20	<0.5	<2	0.02	<0.5	<1	28	1	0.39	<10	<1	0.10	<10	0.03	40	<1
ATH252	245	1.8	0.38	80	70	<0.5	2	0.20	<0.5	<1	101	15	0.49	<10	<1	0.52	50	0.03	15	1
ATH253	2	0.6	0.50	20	60	<0.5	<2	0.05	<0.5	<1	62	14	1.28	<10	<1	0.30	50	0.04	10	11
ATH254	10	0.6	0.52	34	30	<0.5	<2	0.06	<0.5	<1	67	142	5.02	<10	<1	0.21	10	0.01	20	<1
ATH255	2	0.2	0.25	20	50	<0.5	4	0.12	<0.5	<1	69	135	9.34	<10	<1	0.25	<10	0.01	15	5
ATH256	12	0.2	0.62	84	160	<0.5	<2	0.28	<0.5	<1	39	29	3.25	<10	<1	0.33	10	0.05	5	3
ATH257	40	1.6	0.53	20	30	<0.5	10	0.15	<0.5	8	95	980	5.03	<10	<1	0.28	10	0.05	40	6
ATH447	<5	<0.2	0.33	10	20	<0.5	<2	0.15	<0.5	<1	122	49	0.54	<10	<1	0.15	20	0.01	35	1
ATH448	<5	0.6	0.62	6	30	<0.5	<2	0.05	<0.5	<1	102	23	0.29	<10	<1	0.21	40	0.01	30	<1
ATH449	10	<0.2	0.59	20	40	<0.5	<2	0.03	<0.5	<1	115	130	4.13	<10	<1	0.04	<10	<0.01	5	1
Margarita																				
ARY357	70	1.4	0.72	3,565	60	3.5	24	0.33	<0.5	21	636	3,070	10.90	<10	<1	0.08	<10	0.43	65	390
ARY358	<5	<0.2	0.01	594	60	4.5	Int[*]	0.17	0.5	30	92	45,300	9.47	<10	<1	0.11	<10	0.01	35	<10
ASM378	<5	<0.2	0.18	14	<10	<0.5	<2	0.03	<0.5	1	208	5	0.37	<10	<1	<0.01	<10	0.01	45	3
ATH424	<5	<0.2	0.00	484	50	2.5	Int[*]	0.07	<0.5	26	106	48,200	0.21	<10	<1	0.07	<10	0.01	20	366
ATH456	<5	<0.2	2.48	24	30	<0.5	<2	2.06	<0.5	30	9	6	3.52	<10	<1	0.10	30	0.72	510	<1
Los Mogotes																				
ATH268	25	0.4	0.29	8	190	<0.5	<2	0.63	<0.5	1	318	77	0.65	<10	<5	0.20	<30	0.01	15	20
ATH269	5	<0.2	0.11	<2	60	<0.5	<2	0.06	<0.5	<1	248	67	0.34	<10	<5	0.07	<30	<0.01	30	20
ATH272	<1	2.8	0.25	8	60	<0.5	6	15.00	<0.5	<1	32	83	0.38	<10	2	0.16	<10	0.06	15	3
ATH273	6	<0.2	0.63	8	70	<0.5	<2	0.75	<0.5	<1	512	29	0.64	<10	<5	0.25	<10	0.03	20	35
ATH274	6	0.2	0.35	88	780	<0.5	<2	0.13	<0.5	<1	194	72	0.28	<10	<1	0.22	<10	<0.01	5	36
ATH275	3	0.2	0.31	30	<20	<0.5	<2	0.65	<0.5	<1	143	26	0.26	<10	<1	0.18	<10	0.01	10	61
ATH276	<3	0.2	0.53	38	170	<0.5	<2	3.29	<0.5	<1	67	31	0.87	<10	<1	0.23	10	0.11	20	3
ATH277	16	0.2	0.22	6	130	<0.5	<2	3.53	<0.5	<1	69	85	0.44	<10	<1	0.20	<10	0.01	5	2
Cordon de la Inca																				
ARY372	25	<0.2	0.31	24	130	<0.5	2	0.12	<0.5	<1	176	6	2.73	<10	<1	0.21	10	0.06	25	8
ARY373	100	<0.2	0.38	292	70	<0.5	6	0.26	<0.5	<1	136	2	0.93	<10	<1	0.30	10	0.03	10	5

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
ARY366	0.01	5	50	14	<2	<1	319	<0.01	<10	<10	6	<10	2
ARY367	0.07	<1	30	24	<2	<1	47	<0.01	<10	<10	3	<10	<2
ARY368	0.11	<1	70	12	<2	<1	86	<0.01	<10	<10	6	<10	<2
ASM385	0.07	<1	80	8	<2	<1	69	<0.01	<10	<10	3	<10	2
ASM386	0.04	<1	30	78	<2	<1	61	<0.01	<10	<10	3	<10	<2
ASM387	0.39	<1	120	26	<2	<1	159	<0.01	<10	<10	8	<10	2
ASM388	0.09	1	80	24	<2	1	25	<0.01	<10	<10	8	<10	26
ASM389	0.27	<1	20	18	<2	<1	102	<0.01	<10	<10	5	<10	<2
ASM390	0.06	3	30	60	<2	<1	58	<0.01	<10	<10	8	<10	6
ATH437	0.18	1	70	30	<2	<1	118	<0.01	<10	<10	11	<10	<2
ATH438	0.15	1	350	66	<2	1	49	<0.01	<10	<10	10	<10	10
ATH439	0.18	1	140	60	<2	<1	94	<0.01	<10	<10	8	<10	72
ATH440	0.22	<1	50	20	<2	<1	32	<0.01	<10	<10	10	<10	6
ATH441	0.11	1	90	18	<2	<1	40	<0.01	<10	<10	11	<10	8
ATH442	0.07	3	30	6	<2	<1	20	<0.01	<10	<10	2	<10	2
ATH443	0.12	1	70	60	310	1	45	<0.01	30	<10	8	<10	<2
ATH444	0.38	6	510	22	6	9	31	<0.01	<10	<10	14	<10	114
Bordo Atravezado													
ARY369	0.08	<1	140	6	<2	4	51	<0.01	<10	<10	8	<10	38
ARY370	<0.01	<1	330	26	<2	1	437	<0.01	<10	<10	40	<10	30
ASM391	<0.01	<1	140	18	<2	<1	18	<0.01	<10	<10	9	<10	<2
ATH251	0.05	<1	40	30	2	1	8	<0.01	<10	<10	4	<10	54
ATH252	0.04	<1	50	62	2	<1	33	<0.01	<10	<10	3	<10	6
ATH253	0.02	<1	30	14	<2	<1	28	<0.01	<10	<10	3	<10	8
ATH254	0.01	<1	130	8	2	<1	18	<0.01	<10	<10	6	<10	26
ATH255	0.03	1	320	<2	<2	<1	59	<0.01	<10	<10	16	<10	<2
ATH256	0.05	<1	50	14	<2	<1	29	<0.01	<10	<10	2	<10	<2
ATH257	0.04	3	540	20	2	1	11	<0.01	<10	<10	4	<10	28
ATH447	0.06	1	50	38	<2	1	8	<0.01	<10	<10	3	<10	68
ATH448	<0.01	1	50	60	<2	<1	8	<0.01	<10	<10	<5	<10	8
ATH449	<0.01	<1	320	6	<2	<1	35	<0.01	<10	<10	15	<10	2
Margarita													
ARY357	<0.01	37	2,750	58	2	<1	73	<0.01	<10	60	13	<10	36
ARY358	<0.01	39	Int[*]	32	2	<5	161	<0.01	<10	60	20	<10	58
ASM379	0.01	4	40	4	<2	<5	5	<0.01	<10	<10	3	<10	6
ATH424	<0.01	39	Int[*]	26	<2	<5	254	<0.01	10	20	18	<10	40
ATH456	0.22	<1	760	10	<2	5	82	0.09	<10	<10	99	<10	54
Los Mogotes													
ATH268	0.01	1	10	<2	2	<3	22	<0.01	<10	<10	2	<10	4
ATH269	0.01	3	10	4	<2	<3	7	<0.01	<10	<10	3	<10	10
ATH272	0.01	<1	170	44	2	<3	294	<0.01	10	<10	2	<10	8
ATH273	0.04	1	150	12	<2	<3	186	<0.01	<10	<10	5	<10	6
ATH274	0.02	1	20	6	<2	<3	23	<0.01	<10	<10	<5	<10	2
ATH275	0.03	1	30	<2	<2	<3	61	<0.01	<10	<10	3	<10	2
ATH276	0.08	1	170	6	<2	<3	59	<0.01	<10	<10	5	<10	12
ATH277	0.03	<1	20	<2	<2	<3	257	<0.01	<10	<10	3	<10	2
Cordon de la Inca													
ARY372	0.01	1	300	14	<2	3	30	<0.01	<10	<10	9	<10	2
ARY373	0.01	1	470	14	<2	15	7	<0.01	<10	<10	5	<10	2

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
ASN392	<5	<0.2	0.66	10	210	<0.5	<2	0.25	<0.5	<1	212	2	0.36	<10	<1	<0.01	<10	<0.01	20	8
ASN393	<5	<0.2	2.00	20	30	<0.5	2	1.36	<0.5	<1	56	8	0.65	<10	<1	0.05	<10	0.01	5	4
ASN394	<5	<0.2	0.30	6	50	<0.5	<2	0.26	<0.5	<1	100	4	1.50	<10	<1	0.05	<10	0.02	25	1
ASN395	<5	<0.2	0.30	82	1,400	0.5	4	0.35	<0.5	<1	101	19	6.07	<10	<1	0.10	<10	0.04	20	<1
ATH451	15	0.2	0.78	16	30	<0.5	<2	1.37	<0.5	<1	113	22	0.26	<10	<1	0.10	<10	0.05	260	<1
ATH452	5	0.6	0.03	12	30	<0.5	3	0.15	<0.5	<1	252	67	0.36	<10	<1	<0.01	<10	<0.01	20	3
ATH453	<5	<0.2	0.92	102	50	<0.5	<2	0.15	<0.5	<1	60	5	1.74	<10	<1	0.02	<10	<0.01	5	3
ATH454	<5	0.3	0.04	8	20	<0.5	3	0.06	<0.5	<1	159	8	0.25	<10	<1	<0.01	<10	<0.01	20	1
Abundancia																				
EX36	<5	<0.2	0.02	<2	70	<0.5	<2	0.47	<0.5	<1	33	5	1.21	<10	<1	0.10	<10	0.25	270	<1
EX37	<5	<0.2	0.01	7	80	<0.5	<2	0.20	<0.5	1	35	6	1.58	<10	<1	0.07	<10	0.21	260	5
EX38	<5	<0.2	0.08	7	<10	<0.5	<2	>15.00	<0.5	<1	<1	1	0.08	<10	1	0.06	<10	0.26	50	5
TH55	<5	<0.2	0.08	<2	<10	<0.5	<2	0.12	<0.5	<1	246	30	1.56	<10	<1	0.03	<10	0.10	45	5
TH57	65	<0.2	0.29	16	<10	<0.5	<2	10.55	<0.5	<1	26	1	12.05	20	1	0.06	<10	0.13	2,280	35
TH60	335	<0.2	0.05	58	<10	0.5	2	9.35	<0.5	<1	10	26	9.48	<10	1	0.01	<10	0.05	965	6
Guachi																				
EX31	<5	<0.2	0.03	<2	20	<0.5	<2	0.65	<0.5	12	17	76	6.93	10	1	0.05	<10	0.03	265	1
EX32	10	<0.2	1.06	<2	10	<0.5	<2	0.79	<0.5	10	30	18	2.70	<10	<1	0.05	<10	0.50	215	<1
EX33	15	<0.2	1.83	<2	10	<0.5	<2	0.19	<0.5	25	23	98	4.19	<10	<1	0.26	<10	0.79	95	1
EX34	220	0.6	0.54	24	30	<0.5	2	0.10	0.5	5	62	695	8.17	<10	<1	0.26	<10	0.06	165	2
EX35	80	<0.2	0.30	<2	20	<0.5	<2	1.36	<0.5	3	26	1,030	2.98	<10	<1	0.16	<10	0.93	260	30
TH58	430	26.6	0.39	228	<10	<0.5	28	0.61	<0.5	65	62	255	>15.00	<10	3	0.08	<10	0.03	305	2
El Fierro alteration																				
EX24	<5	0.2	0.26	<2	30	<0.5	<2	0.03	<0.5	<1	68	11	0.66	<10	<1	0.16	20	0.01	20	1
EX25	<5	<0.2	0.37	2	10	<0.5	<2	0.03	<0.5	<1	31	19	0.99	<10	<1	0.20	30	0.02	25	1
EX27	<5	<0.2	0.41	36	10	<0.5	<2	0.04	<0.5	3	33	6	2.76	<10	<1	0.33	<10	0.01	5	3
EX28	5	<0.2	0.38	8	50	<0.5	<2	0.05	<0.5	<1	54	5	2.33	<10	<1	0.37	<10	0.02	15	2
EX29	<5	<0.2	2.08	194	140	<0.5	<2	0.03	<0.5	2	50	32	6.05	<10	<1	0.50	10	0.02	650	<1
EX30	<5	0.2	0.33	12	60	<0.5	<2	0.06	<0.5	2	39	32	1.41	<10	<1	0.30	<10	0.07	35	3
TH50	<5	<0.2	0.76	2	60	<0.5	<2	0.15	<0.5	8	152	61	2.08	<10	<1	0.27	<10	0.07	55	8
TH51	<5	<0.2	0.26	4	10	<0.5	<2	0.10	<0.5	<1	108	5	0.50	<10	<1	0.15	<10	0.02	15	1
TH52	<5	<0.2	0.40	<2	40	<0.5	<2	0.04	<0.5	<1	96	20	1.95	<10	<1	0.25	60	0.02	50	2
TH53	<5	<0.2	0.31	<2	30	<0.5	<2	0.03	<0.5	<1	92	6	0.60	<10	<1	0.16	30	0.04	20	2
TH54	<5	<0.2	0.50	8	30	<0.5	<2	0.02	<0.5	<1	91	8	0.86	<10	<1	0.10	50	0.03	15	1
TH55	<5	<0.2	0.38	12	30	<0.5	<2	0.04	<0.5	<1	106	9	1.46	<10	<1	0.17	50	0.05	95	1
TH56	<5	0.2	0.20	<2	10	<0.5	<2	0.05	<0.5	<1	82	67	0.41	<10	<1	0.19	<10	<0.01	25	<1
Cerro Amarillo																				
ATH258	1	0.2	0.32	338	80	<0.5	6	0.04	<0.5	<1	110	16	0.83	<10	<1	0.35	30	<0.01	30	6
ATH259	2	0.2	0.56	10	80	<0.5	<2	0.02	<0.5	<1	173	30	0.25	<10	<1	0.12	<10	0.02	60	<1
ATH261	85	0.6	0.70	26	60	<0.5	<2	0.04	<0.5	<1	159	8	0.53	<10	<1	0.20	<10	<0.01	45	6
ATH263	<1	<0.2	0.55	30	930	<0.5	<2	0.03	0.5	<1	84	8	1.29	<10	<1	0.30	<10	0.13	80	<1
ATH265	85	0.8	0.66	42	30	<0.5	2	0.23	<0.5	<1	149	2	0.36	<10	<1	0.14	<10	0.08	30	1
ATH281	<1	<0.2	0.08	30	40	<0.5	<2	0.50	0.5	5	63	9	1.53	<10	<1	0.08	<10	0.50	1,195	1
ATH282	<1	<0.2	0.59	40	60	<0.5	<2	0.05	<0.5	<1	98	6	0.41	<10	<1	0.53	<10	0.03	60	<1
ATH283	<1	0.4	0.27	<2	<10	<0.5	<2	0.07	<0.5	<1	128	3	0.15	<10	1	0.04	<10	<0.01	20	<1
ATH284	8	<0.2	0.41	26	80	<0.5	<2	0.31	<0.5	<1	92	38	0.43	<10	<1	0.26	30	0.08	40	2
ATH285	3	1.2	0.43	54	40	<0.5	2	0.02	<0.5	<1	173	7	3.55	<10	<1	0.14	<10	<0.01	15	1
ATH286	<1	<0.2	0.43	2	320	<0.5	<2	0.01	<0.5	<1	155	<1	0.29	<10	<1	0.12	<20	<0.01	25	1

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
ASN392	<0.01	4	30	394	<2	<1	8	<0.01	<10	<10	2	<10	2
ASN393	0.02	<1	510	6	<2	2	35	<0.01	<10	<10	34	<10	<2
ASN394	<0.01	3	120	6	2	<1	6	<0.01	<10	<10	31	<10	6
ASN395	<0.01	<1	1,870	8	2	2	25	<0.01	<10	<10	84	<10	6
ATH451	0.08	8	60	46	6	<1	26	<0.01	<10	<10	5	<10	6
ATH452	<0.01	4	<10	22	<2	<1	3	<0.01	<10	<10	3	<10	<2
ATH453	0.01	<1	670	2	<2	2	45	<0.01	<10	<10	56	<10	<2
ATH454	<0.01	3	<10	32	<2	<1	3	<0.01	<10	<10	8	<10	<2
Abundancia													
EX36	0.04	1	390	6	<2	1	15	0.07	<10	<10	15	<10	32
EX37	0.05	<1	310	2	<2	1	33	0.08	<10	<10	21	<10	32
EX38	<0.01	1	10	<2	<2	<1	249	<0.01	<10	<10	3	<10	4
TH55	0.01	4	80	<2	<2	<1	3	<0.01	<10	<10	2	<10	50
TH57	<0.01	<1	<10	<2	<2	<1	35	<0.01	<10	10	61	<10	10
TH60	<0.01	<1	<10	<2	<2	<1	69	<0.01	<10	<10	12	<10	32
Guachi													
EX31	0.31	17	210	<2	2	3	750	0.09	<10	<10	310	<10	30
EX32	0.08	11	360	<2	<2	3	62	0.12	<10	<10	101	<10	66
EX33	0.08	5	650	2	<2	<1	10	<0.01	<10	<10	7	<10	76
EX34	<0.01	4	70	8	<2	<1	8	<0.01	<10	<10	31	<10	140
EX35	0.04	6	760	<2	<2	1	50	<0.01	<10	<10	65	<10	44
TH58	<0.01	9	<10	26	<2	<1	2	<0.01	<10	10	13	<10	26
El Fierro alteration													
EX24	0.05	<1	60	18	<2	<1	6	<0.01	<10	<10	<1	<10	8
EX25	0.02	1	210	16	<2	<1	9	<0.01	<10	<10	2	<10	16
EX27	0.03	1	40	26	<2	<1	4	<0.01	<10	<10	1	<10	2
EX28	0.05	<1	320	32	<2	<1	20	<0.01	<10	<10	1	<10	2
EX29	<0.01	12	200	2	<2	3	9	0.04	<10	<10	42	<10	70
EX30	0.05	2	50	158	<2	<1	7	0.05	<10	<10	1	<10	22
TH50	0.06	4	70	52	<2	<1	10	<0.01	<10	<10	1	<10	58
TH51	0.03	1	30	12	<2	<1	5	<0.01	<10	<10	1	<10	6
TH52	0.04	1	140	60	<2	1	16	<0.01	<10	<10	1	<10	10
TH53	0.07	1	50	6	<2	1	6	<0.01	<10	<10	1	<10	12
TH54	0.07	1	110	2	<2	1	17	0.03	<10	<10	1	<10	8
TH55	0.04	1	100	30	<2	4	15	0.05	<10	<10	6	<10	20
TH56	0.01	2	20	2	<2	<1	1	<0.01	<10	<10	<1	<10	6
Cerro Amarillo													
ATH258	0.03	3	180	6	2	<1	36	<0.01	<10	<10	1	<10	6
ATH259	0.02	3	90	8	2	<1	85	<0.01	<10	<10	6	<10	4
ATH261	0.08	1	70	30	2	<1	38	<0.01	<10	<10	5	<10	2
ATH263	0.05	1	230	58	4	<1	86	<0.01	<10	<10	2	<10	26
ATH265	0.09	3	80	308	<2	<1	54	<0.01	<10	<10	5	<10	6
ATH281	0.05	3	380	10	2	2	5	0.02	<10	<10	21	<10	86
ATH282	0.05	1	160	8	2	1	11	0.07	<10	<10	5	<10	12
ATH283	0.04	1	30	16	4	<1	9	<0.01	<10	<10	1	<10	<2
ATH284	0.07	<1	60	8	<2	<1	4	0.02	<10	<10	4	<10	16
ATH285	0.04	2	50	10	<2	<1	29	<0.01	<10	<10	5	<10	2
ATH286	0.04	2	20	36	<2	<1	14	<0.01	<10	<10	9	<10	2

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
Despoblados																				
AEY402	15	<0.2	0.45	6	60	<0.5	<2	0.05	<0.5	<1	76	11	0.11	<10	<1	0.37	20	0.07	26	<1
AEY401	20	1.0	0.58	14	60	<0.5	<2	0.02	<0.5	<1	36	6	0.26	<10	<1	0.49	10	0.04	15	9
AEY402b	10	0.4	0.35	72	40	<0.5	<2	0.04	<0.5	<1	164	5	3.26	<10	<1	0.20	10	0.08	25	4
AEY404	140	1.0	0.63	201	60	<0.5	<2	0.04	<0.5	<1	25	25	12.55	<10	1	1.32	10	0.02	25	6
ASM419	5	0.6	0.58	16	60	<0.5	<2	0.16	<0.5	<1	93	1	0.61	<10	<1	0.34	20	0.05	85	5
ASM420A	10	0.2	0.62	74	200	<0.5	<2	0.04	<0.5	<1	85	8	4.91	<10	<1	0.59	10	0.03	25	20
ASM421	30	1.8	0.58	314	30	<0.5	<2	0.11	<0.5	<1	129	11	5.49	<10	<1	0.39	20	0.02	50	20
ATM506	20	0.2	0.66	108	90	<0.5	<2	0.03	<0.5	<1	58	11	6.50	<10	<1	1.25	60	0.05	25	<5
ATM508	<5	0.2	0.74	16	300	<0.5	<2	0.09	<0.5	<1	82	6	0.30	<10	<1	0.24	<10	0.04	40	5
ATM509	10	0.6	0.12	26	330	<0.5	<2	0.12	<0.5	<1	159	2	1.23	<10	<1	0.33	<10	0.02	30	16
Guanaco Zonzo																				
AEY385	45	245.8	0.16	16	1,910	<0.5	530	<0.01	<0.5	<1	102	6	0.36	<10	26	0.01	<10	<0.01	30	5
AEY386	<5	0.2	0.55	316	300	<0.5	<2	0.01	<0.5	<1	32	3	0.44	<10	<1	0.26	<10	0.01	60	<1
ASM436	20	0.2	3.06	66	80	<0.5	<2	<0.01	<0.5	<1	216	2	0.23	<10	<1	0.17	<10	<0.01	20	<1
ASM437	90	93.6	0.55	30	2,820	<0.5	1,020	<0.01	<0.5	<1	250	3	0.33	<10	7	0.02	<10	0.01	65	82
ATM474	60	0.8	3.31	32	450	<0.5	<2	<0.01	<0.5	<1	672	3	0.20	<10	<1	0.40	<10	<0.01	35	<1
ATM475	40	<0.2	0.08	48	3,230	<0.5	108	0.01	<0.5	<1	214	3	0.24	<10	3	0.01	<10	<0.01	45	1
Veladero Norte																				
AEY364	25	<0.2	0.41	20	200	<0.5	<2	<0.01	<0.5	<1	268	4	0.40	<10	3	<0.01	<10	<0.01	20	3
ASM402	2,730	45.4	0.22	552	320	<0.5	52	0.01	<0.5	44	189	33	7.67	10	6	0.07	<10	0.01	25	3
ASM403	10	0.2	0.03	2	1,000	<0.5	<2	0.01	<0.5	<1	382	7	0.22	<10	<1	0.01	<10	<0.01	25	<1
ASM404	10	<0.2	<0.01	2	300	<0.5	<2	<0.01	<0.5	<1	107	2	0.15	<10	<1	<0.01	<10	<0.01	5	<1
ASM405	15	<0.2	<0.01	10	400	<0.5	<2	<0.01	<0.5	<1	91	4	0.31	<10	<1	<0.01	<10	<0.01	5	<1
ATM472	3,310	45.4	0.09	524	200	<0.5	30	<0.01	<0.5	<1	206	3	1.02	<10	35	0.07	<10	<0.01	35	<1
ATM473	140	3.4	<0.01	6	2,850	<0.5	<2	<0.01	<0.5	<1	230	9	0.24	<10	<1	<0.01	<10	<0.01	30	1
Veladero Sur																				
AEY387a	25	1.0	1.01	12	<10	<0.5	<2	0.13	<0.5	3	62	6	0.57	<10	<1	0.08	<10	<0.01	30	<1
AEY388	10	0.4	0.68	34	<10	<0.5	<2	0.02	<0.5	6	66	8	0.52	<10	<1	0.14	<10	<0.01	35	2
AEY390	25	<0.2	0.49	2	<10	<0.5	<2	0.09	<0.5	<1	357	7	0.31	<10	<1	0.25	<10	0.02	20	<1
ASM408	10	0.2	2.72	50	60	<0.5	<2	2.45	<0.5	7	30	63	9.36	<10	<1	0.16	<10	1.36	2,030	3
ASM409	10	0.2	0.22	306	50	<0.5	<2	0.15	<0.5	<1	90	6	7.28	<10	<1	0.18	<10	0.01	30	6
ASM410B	10	<0.2	0.16	12	60	<0.5	<2	0.03	<0.5	<1	300	10	1.43	<10	<1	0.01	<10	<0.01	45	1
ATM479	15	1.0	0.51	16	20	<0.5	<2	0.50	<0.5	<1	33	4	0.35	<10	<1	0.15	<10	0.01	30	1
ATM480	25	0.8	0.86	26	<10	<0.5	2	0.01	<0.5	<1	38	8	0.66	<10	<1	0.15	<10	<0.01	<5	3
ATM482	15	2.0	0.98	42	10	<0.5	2	0.13	<0.5	<1	73	5	1.78	<10	<1	0.19	<10	0.03	5	1
ATM484	15	<0.2	0.82	18	30	<0.5	<2	0.14	<0.5	<1	166	11	0.70	<10	<1	0.33	10	0.03	35	4
ATM485	<5	<0.2	0.14	22	80	<0.5	<2	0.23	<0.5	<1	293	4	0.83	<10	<1	0.05	<10	0.02	80	1
Rio Frio																				
AEY395	<5	<0.2	3.06	82	50	<0.5	<2	0.02	<0.5	<1	48	60	8.42	<10	<1	0.52	10	0.03	60	<1
AEY396	460	0.2	0.27	400	320	<0.5	<2	0.13	<0.5	<1	56	61	3.75	<10	<1	0.03	<10	0.02	15	<1
AEY398	15	0.8	0.06	14	10	<0.5	64	0.15	<0.5	<1	259	8	0.35	<10	<1	0.04	<10	<0.01	25	1
AEY399	5	0.2	0.56	18	130	<0.5	2	0.07	<0.5	<1	53	5	0.72	<10	<1	0.29	<10	0.01	5	<1
ASM424	9,930	5.6	0.18	6,150	120	<0.5	16	0.08	<0.5	<1	16	14	>15.00	<10	<1	0.70	<10	<0.01	15	<1
ASM425	370	5.2	0.33	2,120	480	<0.5	2	0.07	0.5	5	149	86	3.27	<10	1	0.03	<10	<0.01	20	<1
ASM426	10	0.6	0.94	16	60	<0.5	10	0.14	<0.5	<1	97	4	0.30	<10	<1	0.25	<10	<0.01	60	1
ATM494	80	0.6	0.08	1,940	20	<0.5	<2	0.06	<0.5	<1	216	20	0.79	<10	<1	0.04	<10	<0.01	45	2
ATM496	105	1.6	0.56	76	20	<0.5	6	<0.01	<0.5	<1	199	37	0.78	<10	<1	0.34	<10	<0.01	15	6

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
Despobladas													
AEY400	0.05	<1	220	6	<2	<1	21	<0.01	<10	<10	6	<10	2
AEY401	0.01	<1	170	8	<2	<1	27	<0.01	<10	<10	1	<10	2
AEY402b	0.07	2	980	22	2	<1	35	<0.01	<10	<10	10	<10	8
AEY404	0.07	<1	1,610	12	8	2	68	<0.01	<10	<10	39	<10	<2
ASM419	0.01	<1	110	12	<2	<1	82	<0.01	<10	<10	4	<10	<2
ASM420A	0.10	<1	1,090	36	<2	<1	42	<0.01	<10	<10	12	<10	2
ASM421	0.40	1	1,010	14	2	1	53	<0.01	<10	<10	15	<10	2
ATM506	0.17	<1	1,200	160	4	1	56	<0.01	<10	<10	19	<10	<2
ATM508	0.02	<1	590	108	<2	<1	5	<0.01	<10	<10	<1	<10	2
ATM509	0.05	2	380	32	2	<1	150	<0.01	<10	<10	4	<10	2
Guanaco Zonzo													
AEY385	<0.01	3	<10	80	212	<1	7	<0.01	<10	<10	2	<10	6
AEY386	0.04	<1	<10	20	16	<1	9	<0.01	<10	<10	<1	<10	12
ASM406	0.01	3	<10	180	28	1	25	<0.01	<10	<10	3	<10	6
ASM407	<0.01	3	<10	160	304	<1	15	<0.01	<10	<10	2	<10	6
ATM474	0.07	3	60	36	8	<1	22	<0.01	<10	<10	9	<10	2
ATM475	<0.01	1	30	202	32	<1	20	<0.01	<10	<10	2	<10	<2
Veladero Norte													
AEY364	<0.01	3	<10	14	<2	<1	4	<0.01	<10	<10	1	<10	2
ASM402	0.04	1	360	1,695	42	<1	178	0.01	<10	<10	18	<10	2
ASM403	<0.01	2	<10	20	<2	<1	9	<0.01	<10	<10	<1	<10	<2
ASM404	<0.01	1	<10	10	<2	<1	5	<0.01	<10	<10	<1	<10	<2
ASM405	<0.01	<1	<10	10	2	<1	1	<0.01	<10	<10	<1	<10	<2
ATM472	<0.01	5	80	110	10	<1	21	0.01	<10	<10	4	<10	2
ATM473	<0.01	5	<10	14	2	<1	5	<0.01	<10	<10	<1	<10	<2
Veladero Sur													
AEY387a	0.20	2	60	46	<2	<1	47	<0.01	<10	<10	3	<10	2
AEY388	0.15	3	50	30	<2	<1	62	<0.01	<10	<10	3	<10	<2
AEY390	0.01	2	30	14	<2	<1	31	<0.01	<10	<10	<1	<10	4
ASM408	0.05	5	1,030	<2	2	6	20	<0.01	<10	<10	32	<10	148
ASM409	0.53	<1	860	10	2	<1	339	<0.01	<10	<10	10	<10	2
ASM410B	0.01	3	60	140	<2	<1	35	<0.01	<10	<10	2	<10	12
ATM479	0.07	<1	40	20	<2	<1	18	<0.01	<10	<10	3	<10	2
ATM480	0.16	<1	90	20	<2	<1	87	<0.01	<10	<10	10	<10	2
ATM482	0.25	8	130	62	<2	1	78	<0.01	<10	<10	9	<10	<2
ATM484	0.03	2	290	58	<2	1	117	<0.01	<10	<10	1	<10	6
ATM485	<0.01	3	50	24	<2	<1	27	<0.01	<10	<10	3	<10	6
Rio Frio													
AEY395	<0.01	<1	<10	30	<2	<1	6	<0.01	<10	<10	1	<10	114
AEY396	0.09	<1	<10	28	6	<1	27	<0.01	<10	<10	8	<10	60
AEY398	<0.01	2	<10	256	76	<1	9	<0.01	<10	<10	<1	<10	6
AEY399	0.01	<1	<10	20	2	<1	9	<0.01	<10	<10	1	<10	6
ASM424	0.09	<1	<10	310	58	<1	116	<0.01	10	20	27	<10	264
ASM425	0.01	9	<10	7,140	448	<1	30	<0.01	50	<10	6	<10	310
ASM426	0.08	3	60	272	28	1	82	<0.01	<10	<10	8	<10	2
ATM494	0.03	4	10	740	38	<1	14	<0.01	<10	<10	1	<10	16
ATM496	0.04	3	<10	152	30	<1	35	<0.01	<10	<10	2	<10	26

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
ATH459	60	0.6	0.30	768	30	<0.5	<2	0.17	<0.5	1	276	15	0.41	<10	<1	0.08	<10	<0.01	75	1
ATH459	20	0.2	0.72	16	120	<0.5	<2	0.58	<0.5	1	322	8	0.68	<10	<1	0.22	<10	<0.01	80	7
ATH470	30	0.6	0.00	10	30	<0.5	2	0.33	<0.5	<1	207	6	0.49	<10	<1	0.01	<10	<0.01	50	1
ATH503	105	3.6	0.37	245	250	<0.5	145	0.23	0.5	<1	359	72	1.41	<10	<1	0.05	<10	0.03	35	6
Zancarron																				
AEY351	<5	<0.2	1.06	76	60	<0.5	<2	<0.01	<0.5	<1	31	91	2.13	<10	<1	0.76	30	0.03	20	<1
AEY352	65	1.8	0.60	136	<10	<0.5	<2	<0.01	3.0	1	132	626	1.28	<10	6	0.29	<10	<0.01	30	<1
AEY396	30	0.6	0.51	9,570	30	<0.5	<2	<0.01	<0.5	<1	131	342	0.98	<10	<2	0.17	<10	<0.01	35	<1
ASM411	20	3.8	0.61	418	<10	<0.5	<2	<0.01	<0.5	<1	92	391	13.50	<10	10	0.15	<10	<0.01	20	5
ASM412	60	0.6	0.32	58	730	<0.5	6	<0.01	<0.5	<1	264	30	0.64	<10	4	0.08	<10	<0.01	20	<1
ASM413	<5	<0.2	1.13	54	250	<0.5	<2	<0.01	<0.5	3	103	89	0.96	<10	<1	0.13	<10	<0.01	30	<1
ATH486	30	0.6	1.05	238	30	<0.5	23	0.20	<0.5	<3	93	22	3.51	20	2	0.58	<10	0.08	30	1
ATH497	15	7.2	0.61	36	20	<0.5	<2	<0.01	<0.5	<3	141	3	0.63	<10	<1	0.21	<10	<0.01	35	<1
ATH493	8,660	45.0	0.53	>10000	20	<0.5	Int'E*	<0.01	<0.5	<1	397	14,400	0.73	<10	7	0.10	<10	<0.01	15	6
El Salado																				
ATH383	10	744.0	0.05	3,285	470	<0.5	<2	0.29	19.5	9	42	566	6.03	<10	<1	0.03	<10	0.09	>10000	1
Las Openas																				
AEY335	155	0.6	0.39	260	45	<0.5	<2	0.58	<0.5	1	123	8	1.91	<10	<1	0.25	30	0.04	125	5
AEY337	38,150	2,676.5	0.32	346	<10	<0.5	<2	0.01	28.5	5	202	170	2.06	<10	1	0.10	<10	<0.01	170	24
ATH398	25,650	61.2	0.25	>10000	40	<0.5	44	0.06	8.5	1	161	246	4.80	<10	<1	0.17	30	0.01	30	1
ATH399	3,790	32.0	0.42	>10000	300	<0.5	<2	0.02	10.0	1	114	565	5.66	<10	<1	0.24	<10	0.01	25	1
Carmen Norte																				
AEY376	5	<0.2	2.40	22	440	0.5	<2	1.29	<0.5	34	63	8	3.15	<10	<1	0.29	20	1.84	1,090	<1
AEY375	695	7.8	0.06	68	10	<0.5	6	0.29	<0.5	<1	296	6	0.69	<10	1	0.04	<10	<0.01	70	1
AEY376	15	<0.2	1.75	62	50	<0.5	<2	0.05	<0.5	12	30	14	2.98	<10	<1	0.09	<10	0.43	105	<1
AEY377	<5	<0.2	1.16	22	20	<0.5	<2	0.74	<0.5	14	55	11	3.19	<10	<1	0.04	<10	1.73	560	1
AEY378	570	0.8	0.12	68	<10	<0.5	3	0.01	<0.5	<1	48	11	1.16	<10	<1	0.06	<10	0.03	20	4
AEY380a	165	<0.2	0.61	36	<10	<0.5	<2	0.62	<0.5	<1	186	3	0.22	<10	<1	<0.01	<10	<0.01	20	1
AEY380b	1,645	<0.2	0.07	12	30	<0.5	<2	1.12	<0.5	<1	219	4	0.68	<10	<1	0.03	<10	<0.01	35	1
AEY380c	40	<0.2	0.01	30	<10	<0.5	<2	0.31	<0.5	<1	286	5	0.38	<10	<1	<0.01	<10	<0.01	25	<1
AEY381	1,060	0.2	0.27	6	40	<0.5	3	0.07	<0.5	<3	316	4	0.59	<10	<1	0.07	<10	0.01	20	3
AEY382a	15	<0.2	1.92	396	70	<0.5	<2	0.09	<0.5	<1	116	41	7.26	<10	<1	0.10	<10	0.02	20	<1
AEY383	2,280	0.6	0.03	26	<10	<0.5	12	0.26	<0.5	1	367	4	0.67	<10	1	0.05	<10	<0.01	35	1
ASM396	10	<0.2	0.97	65	60	<0.5	2	1.73	<0.5	16	64	76	4.03	<10	<3	0.25	10	0.88	615	8
ASM398	75	0.8	0.93	1,350	350	<0.5	2	0.01	<0.5	<1	16	362	>35.00	<10	<1	0.62	<10	0.04	43	1
ASM399	50	2.0	0.11	346	1,490	<0.5	4	0.09	<0.5	<1	170	9	5.64	<10	<1	0.06	<10	0.02	45	<1
ASM620	<5	<0.2	2.63	48	40	<0.5	<2	0.22	<0.5	7	54	58	3.02	<10	<1	0.07	10	0.06	210	<1
ASM621	25	<0.2	1.86	58	70	<0.5	<2	0.88	<0.5	6	32	15	3.36	<10	<1	0.25	10	0.17	35	<1
ATH450	5	<0.2	2.09	48	280	0.5	<2	3.03	<0.5	33	43	13	5.19	<10	<1	0.24	20	1.05	550	3
ATH455	25	0.4	0.51	38	50	<0.5	<2	0.33	<0.5	<1	75	4	0.36	<10	<1	0.20	<10	0.01	20	3
ATH461	1,155	0.6	0.39	34	30	<0.5	2	0.02	<0.5	<3	152	4	0.46	<10	5	0.19	<10	<0.01	15	2
ATH463	30	<0.2	0.57	34	10	<0.5	<2	0.13	<0.5	<3	214	3	0.60	<10	<3	0.05	<10	<0.01	15	6
ATH464	10	<0.2	0.78	36	<10	<0.5	2	0.12	<0.5	11	27	13	3.32	<10	<1	0.08	<10	<0.01	5	3
ATH465	<5	<0.2	0.72	2	20	<0.5	<2	1.64	<0.5	<1	46	1	0.24	<10	<1	0.24	<10	<0.01	<5	1
ATH466	15	<0.2	0.20	36	70	<0.5	2	0.21	<0.5	<1	328	6	7.86	<10	<1	0.20	<10	<0.01	20	24
ATH468	<5	0.2	0.51	30	170	<0.5	<2	0.32	<0.5	<1	93	1	0.77	<10	<1	0.61	<10	0.01	30	5
ATH469	<5	<0.2	0.95	<2	20	<0.5	<2	0.29	<0.5	<1	216	1	0.28	<10	<1	0.01	<10	<0.01	25	1
ATH470	<5	<0.2	0.03	2	10	<0.5	<2	0.22	<0.5	1	328	3	0.35	<10	<1	<0.01	<10	<0.01	30	1
ATH471	<5	<0.2	0.05	4	530	<0.5	<2	0.52	<0.5	1	196	4	0.34	<10	<1	0.02	<10	0.05	35	1

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
ATH470	0.01	6	30	6,370	106	<1	25	<0.01	10	<10	2	<10	52
ATH499	0.06	1	80	95	6	<3	56	<0.01	<10	<10	5	<10	2
ATH500	0.03	8	30	66	6	<3	11	<0.01	<10	<10	1	<20	<2
ATH503	0.05	2	180	1,510	116	<3	125	<0.01	<10	<10	6	<10	74
Zancarron													
AEY351	0.08	<1	<10	6	<2	<1	35	<0.01	<10	<10	6	<10	14
AEY352	0.01	1	<10	174	<2	<3	4	<0.01	<10	<10	3	<10	706
AEY396	0.02	1	<10	28	48	<3	20	<0.01	<10	<10	3	<10	6
ASM411	0.27	<1	310	32	<2	<3	19	<0.01	<10	<10	16	<10	48
ASM412	0.03	3	<10	30	14	<3	11	<0.01	<10	<10	3	<10	2
ASM413	0.01	3	<10	10	<2	<3	32	<0.01	<10	<10	6	<10	8
ATH456	0.08	3	40	308	4	1	5	<0.01	<10	<10	15	<10	10
ATH457	0.06	8	10	36	8	<1	33	<0.01	<10	<10	2	<10	6
ATH493	0.01	2	Int'E*	22	874	<1	17	<0.01	<10	<10	1	<10	2
El Salado													
ATH383	<0.01	<1	20	10,700	32	<3	450	<0.01	<10	10	3	<10	9,540
Las Openas													
AEY336	<0.01	3	300	200	<2	<1	11	<0.01	<10	<10	8	<10	56
AEY337	0.02	3	50	2,230	8,985	<1	3	<0.01	<10	<10	1	<10	7,850
ATH398	<0.01	<1	110	8,665	26	<1	19	<0.01	<10	<10	6	320	108
ATH399	<0.01	<1	40	66,200	44	6	19	<0.01	<10	10	3	<10	1,755
Carmen Norte													
AEY376	0.05	17	710	<2	<2	3	55	<0.01	<10	<10	51	<10	150
AEY375	0.01	6	10	80	10	<1	38	<0.01	<10	<10	2	<10	92
AEY376	0.05	16	<10	8	<2	<1	114	<0.01	<10	<10	9	<10	32
AEY377	0.07	12	850	6	<2	4	33	0.10	<10	<10	82	<10	304
AEY378	0.08	8	90	8	<2	<3	62	<0.01	<10	<10	10	<10	6
AEY380a	<0.01	3	<10	<2	<2	<1	4	<0.01	<10	<10	<1	<10	2
AEY380b	0.01	2	<10	2	2	<1	8	<0.01	<10	<10	<1	<10	2
AEY380c	<0.01	6	<10	<2	2	<1	2	<0.01	<10	<10	<2	<10	2
AEY381	0.06	3	<10	6	2	<3	25	<0.01	<10	<10	<1	<10	2
AEY382a	0.07	3	560	16	<2	<1	195	<0.01	<10	<10	10	<10	6
AEY383	0.01	6	<10	32	24	<1	31	<0.01	<10	<10	1	<10	<2
ASM396	0.05	31	800	10	<2	3	70	<0.01	<10	<10	21	<10	116
ASM398	0.06	<1	1,960	406	34	3	360	<0.01	<10	30	155	<10	66
ASM399	0.03	8	350	70	16	<3	15	<0.01	<10	<10	12	<10	6
ASM620	0.07	7	340	20	<2	3	31	0.01	<10	<10	69	<10	134
ASM621	0.08	6	130	<2	<2	3	10	0.01	<10	<10	12	<10	18
ATH458	0.05	33	280	<2	<2	3	68	<0.01	<10	<10	58	<10	62
ATH459	0.22	1	200	106	10	<1	96	<0.01	<10	<10	59	<10	6
ATH461	0.08	3	90	30	2	<1	66	<0.01	<10	<10	35	<10	<2
ATH463	0.36	3	170	22	<2	<1	26	<0.01	<10	<10	33	<10	<2
ATH464	0.03	10	60	6	<2	1	70	<0.01	<10	<10	11	<10	6
ATH465	0.10	<1	30	2	<2	<3	80	<0.01	<10	<10	5	<10	<2
ATH466	0.78	1	330	6	<2	<3	176	<0.01	<10	<10	3	<10	<2
ATH468	0.28	<1	60	22	<2	<1	133	<0.01	<10	<10	6	<10	<2
ATH469	0.01	3	10	<2	<2	<1	11	<0.01	<10	<10	3	<10	<2
ATH470	0.01	6	<10	2	<2	<1	4	<0.01	<10	<10	1	<10	2
ATH471	0.19	2	<10	16	<2	<3	12	<0.01	<10	<10	1	<10	6

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
Quebrada de Chita																				
ASM342	140	0.2	0.29	334	10	<0.5	<2	0.05	10.5	7	17	17	0.51	<10	<1	0.14	10	<0.01	355	<1
ATM378	2,660	166.0	0.04	934	10	<0.5	32	0.01	6.0	6	241	1,020	11.75	<10	<1	0.03	<10	<0.01	30	31
EX16	120	1.2	0.25	30	50	<0.5	<2	0.15	<0.5	<1	11	35	1.75	<10	<1	0.28	<10	0.02	5	85
EX19	10	1.6	0.35	16	40	<0.5	<2	0.13	<0.5	<1	14	17	0.94	<10	<1	0.31	<10	0.01	20	26
EX20	<5	<0.2	0.50	<2	30	<0.5	<2	0.03	<0.5	<1	16	17	1.51	<10	<1	0.26	10	0.04	30	<1
EX21	440	110g/t	0.32	114	40	<0.5	2	0.10	<0.5	<1	61	102	8.45	<10	<1	0.13	<10	0.01	40	35
TM26	130	1.4	0.95	34	70	<0.5	<2	0.07	<0.5	<1	48	151	0.66	<10	<1	0.20	10	0.07	20	124
TM29	10	0.2	0.96	30	140	<0.5	<2	0.15	<0.5	<1	27	62	2.05	<10	<1	0.58	<10	0.03	10	17
TM30	95	0.8	0.90	16	130	<0.5	<2	0.06	<0.5	<1	19	68	2.72	<10	<1	0.05	<10	0.05	20	17
TM34	60	2.6	0.54	8	290	<0.5	2	0.05	<0.5	<1	69	38	2.20	<10	<1	0.65	<10	0.02	5	30
TM35	25	<0.2	0.57	<2	160	<0.5	<2	0.09	<0.5	<1	20	87	1.61	<10	1	0.33	10	0.04	35	7
TM36	<5	<0.2	0.47	<2	60	<0.5	<2	0.02	<0.5	<1	32	24	0.65	<10	<1	0.22	<10	0.02	5	14
Tocota District																				
ARY331	<5	<0.2	0.70	94	330	0.5	<2	0.04	<0.5	3	143	21	2.71	<10	<1	0.33	10	0.07	65	2
ARY332	20	0.2	0.35	254	350	<0.5	<2	0.04	<0.5	8	268	306	3.06	<10	<1	0.36	<10	0.02	105	6
ARY333	<5	<0.2	2.20	126	550	<0.5	<2	0.76	<0.5	13	53	395	4.23	<10	<1	1.53	20	3.19	275	<1
ASM335	35	0.2	0.28	282	200	<0.5	2	0.02	0.5	13	228	358	3.64	<10	<1	0.34	<10	0.02	25	5
ASM336	<5	<0.2	0.66	240	30	<0.5	<2	0.09	<0.5	<1	166	66	0.73	<10	<1	0.23	20	0.07	65	1
ASM337	10	<0.2	0.15	6,530	20	<0.5	6	0.07	<0.5	10	118	35	0.96	<10	<1	0.03	<10	0.01	55	<1
ASM340	35	1.2	0.32	3,695	320	<0.5	56	0.17	<0.5	65	153	392	3.21	<10	<1	<0.01	<10	0.01	565	2
ATM363	9,490	1.8	0.05	>10000	<10	<0.5	166	<0.01	<0.5	491	27	85	12.10	<10	<1	0.02	<10	<0.01	5	2
ATM373	20	0.6	0.16	730	30	<0.5	4	0.07	<0.5	22	228	38	1.43	<10	<1	0.01	<10	0.01	30	1
ATM374	205	0.4	0.05	5,290	<10	<0.5	10	0.04	<0.5	18	273	34	0.85	<10	<1	<0.01	<10	<0.01	45	2
ATM375	480	1.6	0.38	>10000	20	<0.5	24	0.01	<0.5	30	219	334	3.16	<10	<1	0.01	<10	0.01	25	1
ATM376	635	0.4	0.04	>10000	70	<0.5	66	<0.01	<0.5	975	97	500	10.45	<10	<1	<0.01	<10	<0.01	5	1
El Retamal																				
EX09	<5	<0.2	0.69	8	310	<0.5	<2	0.01	<0.5	5	37	1	2.68	<10	<1	0.51	20	0.03	5	<1
EX10	<5	<0.2	0.20	3	20	<0.5	<2	0.01	<0.5	1	48	2	0.68	<10	<1	0.13	10	0.02	5	2
EX12	<5	<0.2	0.60	8	10	<0.5	6	0.59	<0.5	<1	26	3	0.29	<10	<1	0.22	<10	0.02	5	6
EX13	<5	<0.2	0.54	6	50	<0.5	2	0.07	<0.5	<1	20	6	2.47	<10	<1	0.48	20	0.05	5	11
TM21	105	0.2	0.91	42	20	<0.5	2	1.43	<0.5	8	36	1,340	1.61	<10	<1	0.13	10	0.02	170	31
TM23	20	<0.2	1.44	24	60	<0.5	<2	0.25	<0.5	7	72	77	2.22	<10	1	0.38	<10	1.20	45	5
Vizcachas																				
ARY311	<5	<0.2	0.36	6	30	<0.5	<2	0.15	<0.5	<1	69	6	1.16	<10	<1	0.36	10	0.05	335	<1
ASM315B	<5	<0.2	0.26	40	30	<0.5	<2	0.01	<0.5	<1	73	5	0.92	<10	<1	0.33	20	0.01	15	3
ATM325	<5	<0.2	0.56	12	40	<0.5	<2	0.03	<0.5	<1	70	2	0.57	<10	<1	0.25	20	0.06	20	1
ATM327	30	<0.2	1.30	56	60	0.5	<2	0.13	<0.5	1	317	1	2.38	<10	<1	0.52	10	0.44	145	6
ATM328	30	<0.2	1.30	56	60	0.5	<2	0.13	<0.5	1	317	1	2.38	<10	<1	0.52	10	0.44	145	6
Castano Viejo District																				
ASM309	60	0.6	0.35	36	730	<0.5	8	0.18	<0.5	<1	70	4	0.69	<10	<1	0.08	<10	<0.01	5	2
ASM310	<5	<0.2	0.99	8	50	<0.5	<2	0.14	<0.5	4	76	5	2.02	<10	<1	0.34	<10	0.01	5	<1
ATM310	95	16.0	0.35	136	30	<0.5	3	0.06	3.5	<1	78	39	2.48	<10	<1	0.27	<10	0.01	20	17
ATM311	35	0.6	0.58	34	60	<0.5	3	0.56	<0.5	9	61	23	3.06	<10	<1	0.36	10	0.06	30	7
ATM313	20	20.6	0.01	30	40	<0.5	6	19.05	5.8	3	42	80	1.50	<10	3	0.34	<10	0.09	45	<1
ATM314	20	0.2	0.25	10	30	<0.5	2	0.47	<0.5	<1	201	32	1.03	<10	<1	0.13	<10	0.03	15	5
Avestruces																				

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
Quebrada de Chita													
ASM342	<0.01	3	40	452	2	<1	47	<0.01	<10	<10	3	<10	2,050
ATM378	<0.01	6	10	544	4	<1	17	<0.01	<10	<10	3	<10	1,280
EX16	0.05	<1	530	8	<2	<1	29	<0.01	<10	<10	3	<10	2
EX19	0.05	<1	300	16	<2	<1	19	<0.01	<10	<10	3	<10	4
EX20	0.03	<1	110	8	<2	<1	21	<0.01	<10	<10	3	<10	<2
EX21	<0.01	1	1,340	3,930	50	<1	57	<0.01	<10	<10	5	<10	16
TM26	0.06	<1	380	8	<2	1	33	<0.01	<10	<10	16	<10	22
TM29	0.02	<1	340	2	<2	<1	9	<0.01	<10	<10	6	<10	8
TM30	0.04	<1	610	6	<2	<1	99	<0.01	<10	<10	6	<10	16
TM34	0.01	<1	160	46	<2	<1	19	0.01	<10	<10	4	<10	30
TM35	0.03	<1	140	8	<2	<1	115	<0.01	<10	<10	20	<10	16
TM36	0.04	<1	250	20	<2	<1	30	0.01	<10	<10	8	<10	12
Tocota District													
ARY331	<0.01	5	340	12	<2	1	15	<0.01	<10	<10	28	<10	56
ARY332	<0.01	31	110	18	<2	<1	51	<0.01	<10	<10	7	10	45
ARY333	0.09	8	1,620	8	<2	6	57	0.22	<10	<10	96	<10	32
ASM335	<0.01	23	80	6	2	<1	17	<0.01	<10	50	2	<10	66
ASM336	0.02	3	130	6	<2	1	13	<0.01	<10	<10	7	<10	16
ASM337	<0.01	3	240	2	30	<1	53	<0.01	<10	<10	1	<10	10
ASM340	<0.01	24	900	120	6	<1	7	<0.01	<10	<10	30	<10	312
ATM363	<0.01	51	90	28	650	<1	2	<0.01	<10	<10	2	10	16
ATM373	<0.01	8	380	14	6	1	6	<0.01	<10	<10	8	<10	24
ATM374	<0.01	6	100	4	24	<1	2	<0.01	<10	<10	6	<10	6
ATM375	<0.01	3	110	110	22	1	9	<0.01	<10	<10	9	<10	36
ATM376	<0.01	46	50	30	670	<1	1	<0.01	<10	<10	2	10	20
El Retamal													
EX09	0.07	6	90	8	<2	1	5	<0.01	<10	<10	5	<10	<2
EX10	0.01	3	50	2	<2	<1	3	<0.01	<10	<10	3	<10	<2
EX12	0.03	<1	430	4	<2	7	10	<0.01	<10	<10	3	<10	2
EX13	0.19	<1	450	24	<2	<1	123	<0.01	<10	<10	7	<10	2
TM21	0.03	11	510	10	<2	1	30	<0.01	<10	<10	16	<10	40
TM23	0.05	9	720	34	2	4	11	0.03	<10	<10	40	<10	26
Vizcachas													
ARY311	0.06	1	60	6	<2	2	11	0.03	<10	<10	4	<10	22
ASM315B	0.04	<1	50	38	<2	1	6	<0.01	<10	<10	<1	<10	<2
ATM325	0.06	<1	40	6	<2	<1	5	<0.01	<10	<10	<1	<10	2
ATM327	0.03	1	20	22	<2	1	3	<0.01	<10	<10	3	<10	154
ATM328	0.03	1	20	22	<2	1	3	<0.01	<10	<10	3	<10	154
Castano Viejo District													
ASM309	<0.01	<1	60	86	<2	<1	22	<0.01	<10	<10	4	<10	<2
ASM310	0.01	2	80	6	6	<1	7	<0.01	<10	<10	3	<10	2
ATM310	<0.01	<1	350	1,630	6	1	40	<0.01	<10	<10	7	<10	22
ATM312	<0.01	17	290	110	<2	3	8	<0.01	<10	<10	6	<10	24
ATM313	0.26	6	250	26,900	66	<1	24	<0.01	<10	<10	10	<10	950
ATM314	0.02	4	210	66	2	2	11	<0.01	<10	<10	4	<10	4
Avestruces													

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
ARY312a	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
ARY312b	<5	<0.2	0.44	80	300	<0.5	<2	0.13	<0.5	1	142	3	2.17	<10	<1	0.15	20	0.06	10	3
ARY313	<5	<0.2	0.10	52	330	<0.5	<2	0.34	<0.5	1	170	6	3.61	<10	<1	0.13	<10	<0.01	55	25
ARY314	<5	<0.2	3.07	24	630	<0.5	<2	0.26	<0.5	<1	41	<1	1.07	<10	<1	0.43	<10	0.69	5	<1
ARY315b	<5	<0.2	0.20	312	40	<0.5	<2	0.06	<0.5	<1	59	<1	>15.00	90	1	0.28	<10	<0.01	5	<1
ARY316	<5	<0.2	3.86	42	50	<0.5	<2	0.07	<0.5	<1	27	9	5.91	<10	<1	0.25	20	0.38	25	<1
ARY317	<5	<0.2	3.53	38	40	<0.5	<2	0.01	<0.5	1	43	5	3.11	<10	<1	0.02	<10	<0.01	20	<1
ARY320	<5	<0.2	0.71	30	110	<0.5	16	0.04	<0.5	<1	55	<1	0.49	<10	<1	0.43	50	0.06	5	<1
ASH316	<5	<0.2	0.03	<2	<10	<0.5	<2	0.03	<0.5	<1	142	2	0.19	<10	<1	<0.01	<10	<0.01	20	<1
ASH317	<5	<0.2	0.48	66	30	<0.5	<2	0.18	<0.5	1	78	11	3.13	<10	<1	0.03	<10	0.02	5	1
ASH318	<5	<0.2	0.49	14	20	<0.5	<2	0.06	<0.5	1	60	4	0.92	<10	<1	0.10	<10	<0.01	5	<1
ASH319	5	<0.2	0.06	50	30	<0.5	<2	0.76	<0.5	1	214	5	1.20	<10	<1	0.01	<10	<0.01	45	6
ASH320	<5	<0.2	0.57	22	30	<0.5	<2	<0.01	<0.5	<1	46	39	0.43	<10	<1	0.07	<10	<0.01	5	2
ASH322	5	<0.2	0.07	60	50	<0.5	<2	0.01	<0.5	1	99	68	2.31	<10	<1	0.01	<10	<0.01	5	<1
ASH323	<5	<0.2	0.03	41	470	<0.5	<2	0.01	<0.5	1	185	4	0.67	<10	<1	<0.01	<10	<0.01	10	2
ASH324	5	<0.2	2.48	54	30	<0.5	33	0.20	<0.5	<1	83	5	1.21	<10	<1	0.09	10	1.05	150	<1
ASH325	5	<0.2	0.73	24	100	<0.5	3	0.01	<0.5	<1	31	<1	0.92	<10	<1	0.34	50	0.05	<5	1
ATH329	<5	<0.2	0.17	49	60	<0.5	<2	0.05	<0.5	1	191	9	2.86	<10	<1	0.01	<10	<0.01	25	30
ATH330	<5	<0.2	0.02	2	<10	<0.5	<2	0.32	<0.5	<1	253	<1	0.35	<10	<1	<0.01	<10	<0.01	30	3
ATH332	<5	<0.2	0.05	150	210	<0.5	<2	0.10	<0.5	<1	22	2	1.03	<10	<1	0.59	10	0.06	5	<1
ATH335	<5	<0.2	0.14	43	<10	<0.5	3	0.01	<0.5	1	165	3	1.01	<10	<1	0.06	<10	<0.01	10	1
ATH336	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
ATH337	<5	<0.2	0.07	36	30	<0.5	6	0.01	<0.5	<5	46	3	0.27	<10	<1	0.03	<10	<0.01	15	<1
ATH338	<5	<0.2	0.32	130	80	<0.5	8	0.05	<0.5	5	48	13	2.65	<10	<1	0.39	<10	0.52	<5	3
ATH340	<5	0.6	0.23	24	30	<0.5	<2	0.02	<0.5	3	100	63	0.45	<10	<1	0.22	<10	0.02	25	3
ATH341	<5	<0.2	0.01	10	50	<0.5	<2	0.03	<0.5	<1	43	<1	0.53	<10	<1	0.30	<10	0.10	20	<1
ATH343	5	<0.2	0.78	12	130	<0.5	2	0.06	<0.5	<1	66	3	0.35	<10	<1	0.35	<10	0.04	25	<1
ATH349	<5	<0.2	1.56	16	130	<0.5	6	0.37	<0.5	<1	36	<1	0.38	<10	<1	0.20	50	0.13	25	<1
Manrique																				
ARY321b	<5	<0.2	0.73	36	240	<0.5	10	0.05	<0.5	<1	62	77	0.99	<10	<1	0.16	<10	0.05	20	<1
ARY322	<5	<0.2	0.57	20	70	<0.5	<2	0.04	<0.5	<1	116	33	2.76	<10	<1	0.17	30	0.05	25	2
ARY323	<5	<0.2	0.50	40	320	<0.5	6	0.03	<0.5	<1	51	7	2.94	<10	<1	0.16	10	0.02	30	8
ARY324b	<5	<0.2	0.33	38	60	<0.5	3	0.03	<0.5	1	166	51	2.91	<10	<1	0.11	10	0.01	20	3
ARY325	20	<0.2	0.68	22	60	0.5	<2	0.03	<0.5	3	103	43	6.37	<10	<1	0.17	20	0.16	80	11
ARY327	<5	<0.2	0.53	58	30	<0.5	6	0.07	<0.5	<1	64	51	0.56	<10	<1	0.13	<10	0.01	5	8
ARY328	10	<0.2	0.01	20	30	<0.5	<2	0.04	<0.5	<1	35	26	3.84	<10	<1	0.16	<10	0.01	5	3
ARY329	200	0.6	0.26	214	90	<0.5	<2	0.23	5.6	3	203	66	1.71	<10	1	0.01	<10	0.04	1,380	22
ASH326	<5	<0.2	1.01	28	80	<0.5	6	0.08	<0.5	<1	37	33	4.56	<10	<1	0.15	10	0.13	35	<1
ASH327	<5	<0.2	1.08	12	170	<0.5	2	0.13	<0.5	<1	65	8	5.73	<10	<1	0.37	30	0.10	40	<1
ASH328	5	<0.2	0.59	30	40	<0.5	8	0.02	<0.5	<1	72	3	0.60	<10	<1	0.23	<10	0.04	35	6
ASH329A	15	<0.2	0.62	26	70	<0.5	2	0.05	<0.5	<1	49	22	3.50	<10	<1	0.32	30	0.05	35	5
ASH329B	25	<0.2	0.75	22	30	<0.5	6	0.04	<0.5	<1	126	37	2.61	<10	<1	0.13	30	0.10	45	35
ASH331	10	1.0	0.39	20	350	<0.5	4	0.04	<0.5	1	227	2	3.79	<10	<1	0.12	<10	0.01	25	16
ASH332	<5	<0.2	0.78	30	45	<0.5	<2	0.08	<0.5	<1	66	6	2.59	<10	<1	0.18	30	0.07	20	<1
ASH333	20	0.6	0.30	78	10	<0.5	<2	0.02	<0.5	2	356	28	2.91	<10	<1	0.08	<10	0.04	40	9
ASH334	10	0.2	0.25	6	30	<0.5	<2	0.03	<0.5	<1	116	<1	0.27	<10	<1	0.38	<10	0.02	20	8
ATH348	<5	<0.2	0.48	10	90	<0.5	<2	0.08	<0.5	<1	200	3	1.65	<10	<1	0.12	10	0.10	35	<1
ATH349	<5	<0.2	0.05	14	10	<0.5	<2	0.01	<0.5	1	142	2	3.25	<10	<1	0.05	<10	0.01	15	214
ATH350	<5	<0.2	0.54	2	50	<0.5	3	0.02	<0.5	<1	48	1	0.40	<10	<1	0.28	10	0.01	5	4
ATH351	<5	<0.2	0.68	8	40	<0.5	<2	0.03	<0.5	<1	83	3	1.33	<10	<1	0.36	<10	0.03	15	3
ATH352	5	<0.2	0.44	14	50	<0.5	<2	0.01	<0.5	<1	215	2	0.73	<10	<1	0.09	20	0.01	25	99

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
ARY312a	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
ARY312b	0.01	2	190	15	<2	1	24	<0.01	<10	<10	8	<10	<2
ARY313	0.01	1	530	50	<2	1	65	<0.01	<10	<10	8	<10	<2
ARY314	0.01	<1	30	10	<2	2	25	<0.01	<10	<10	15	<10	<2
ARY315b	0.12	<1	330	18	<2	1	114	<0.01	<10	<10	36	<10	<2
ARY316	<0.01	<1	120	22	<2	4	3	<0.01	<10	<10	28	<10	6
ARY317	<0.01	<1	310	6	<2	4	69	<0.01	<10	<10	43	<10	<2
ARY320	0.01	<1	70	20	<2	1	11	<0.01	<10	<10	8	<10	<2
ASH316	<0.01	3	30	<2	<2	<1	2	<0.01	<10	<10	1	<10	<2
ASH317	<0.01	1	90	8	<2	<1	19	<0.01	<10	<10	22	<10	<2
ASH318	<0.01	1	30	6	<2	1	3	<0.01	<10	<10	9	<10	<2
ASH319	<0.01	2	80	46	6	<1	10	<0.01	<10	<10	6	<10	<2
ASH320	<0.01	<1	140	6	<2	<1	26	<0.01	<10	<10	48	<10	<2
ASH322	<0.01	1	140	8	<2	4	101	<0.01	<10	<10	21	<10	2
ASH323	<0.01	6	<10	6	<2	<1	16	<0.01	<10	<10	5	<10	<2
ASH324	0.01	<1	320	160	<2	7	6	<0.01	<10	<10	49	<10	6
ASH325	<0.01	<1	490	14	<2	9	30	<0.01	<10	<10	6	<10	<2
ATH329	<0.01	2	280	16	2	1	91	<0.01	<10	<10	6	<10	<2
ATH330	<0.01	6	10	<2	<2	<1	4	<0.01	<10	<10	1	<10	<2
ATH332	0.01	<1	150	36	<2	2	14	<0.01	<10	<10	11	<10	<2
ATH335	<0.01	2	360	6	<2	3	12	<0.01	<10	<10	5	<10	<2
ATH336	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
ATH337	<0.01	<1	30	6	<2	2	12	<0.01	<10	<10	15	<10	<2
ATH338	0.01	9	20	20	<2	1	6	<0.01	<10	<10	16	<10	<2
ATH340	<0.01	3	50	38	<2	<1	3	<0.01	<10	<10	6	<10	2
ATH341	0.01	<1	100	12	<2	<1	19	<0.01	<10	<10	6	<10	<2
ATH343	0.03	<1	45	8	<2	1	7	<0.01	<10	<10	9	<10	<2
ATH349	0.03	<1	500	46	<2	1	222	<0.01	<10	<10	20	<10	<2
Manrique													
ARY321b	<0.01	<1	390	42	<2	3	10	<0.01	<10	<10	50	<10	30
ARY322	0.01	1	420	6	<2	1	36	<0.01	<10	<10	16	<10	4
ARY323	0.03	<1	320	324	<2	<1	17	<0.01	<10	<10	7	<10	<2
ARY324b	<0.01	3	330	20	<2	<1	11	<0.01	<10	<10	14	<10	<2
ARY325	<0.01	<1	930	26	<2	3	27	0.04	<10	<10	49	<10	48
ARY327	<0.01	<1	200	16	<2	<1	5	<0.01	<10	<10	15	<10	2
ARY328	<0.01	<1	240	10	<2	1	2	<0.01	<10	<10	37	<10	2
ARY329	<0.01	5	220	2,410	16	<1	7	<0.01	<10	<10	8	<10	1,210
ASH326	0.03	<1	560	12	<2	4	<1	<0.01	<10	<10	45	<10	8
ASH327	0.16	2	840	10	2	4	118	<0.01	<10	<10	32	<10	10
ASH328	0.02	<1	280	300	<2	<1	10	<0.01	<10	<10	8	<10	4
ASH329A	0.05	<1	90	18	<2	1	6	<0.01	<10	<10	10	<10	2
ASH329B	0.02	1	270	44	<2	3	9	0.04	<10	<10	40	<10	18
ASH331	0.01	3	220	96	<2	<1	13	<0.01	<10	<10	8	<10	6
ASH332	0.05	<1	390	8	<2	1	81	<0.01	<10	<10	9	<10	4
ASH333	<0.01	2	310	14	<2	1	2	<0.01	<10	<10	16	<10	18
ASH334	0.01	1	320	64	<2	<1	35	<0.01	<10	<10	8	<10	<2
ATH348	0.03	3	520	8	<2	<1	10	<0.01	<10	<10	32	<10	10
ATH349	<0.01	<1	670	4	2	<1	5	<0.01	<10	<10	2	<10	18
ATH350	0.01	1	220	32	<2	1	6	<0.01	<10	<10	2	<10	16
ATH351	0.02	<1	30	8	<2	<1	5	<0.01	<10	<10	3	<10	10
ATH352	0.01	3	270	4	<2	<1	29	<0.01	<10	<10	3	<10	2

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	B_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
ATH355	<5	<0.2	0.25	16	30	<0.5	6	<0.01	<0.5	<1	196	6	5.13	<10	<1	0.05	<10	0.03	35	3
ATH356	<5	<0.2	0.38	120	61	<0.5	<3	0.03	<0.5	<1	105	3	0.32	<10	<1	0.35	10	0.01	15	3
ATH357	<5	<0.2	0.55	6	30	<0.5	6	0.01	<0.5	<1	75	1	0.01	<10	<1	0.35	<10	0.05	10	<1
Castano Nuevo																				
TH24	320	<0.2	0.58	78	70	<0.5	6	0.20	<0.5	7	42	55	5.02	<10	<1	0.42	30	0.05	10	34
Leoncito																				
EY54	<5	<0.2	0.46	<2	310	<0.5	<2	0.35	<0.5	<1	50	9	0.71	<10	<1	0.19	20	0.03	65	<1
TH92	<5	0.2	0.16	106	390	<0.5	<2	0.18	<0.5	<1	75	26	1.39	<10	<1	0.04	<10	<0.01	35	4
TH93	<5	<0.2	0.55	32	30	<0.5	<2	0.31	<0.5	<1	243	3	0.56	<10	<1	0.27	30	0.03	55	1
Alcaparrosa																				
EY05	<5	<0.2	1.53	<2	60	<0.5	<2	0.37	<0.5	8	96	72	1.48	<10	<1	0.51	30	0.05	95	1
San Jorge																				
TH79	10	1.8	1.41	74	60	<0.5	12	0.04	<0.5	1	92	9,240	1.96	<10	<1	0.19	30	0.97	330	1
Yalguaraz																				
TH83	310	15.8	0.40	490	80	<0.5	2	0.04	<0.5	1	251	63	0.15	<10	<5	0.26	10	0.05	50	5
Paramillos Sur																				
TH133	25	<0.2	1.10	2	70	<0.5	<2	0.06	<0.5	1	329	50	0.76	<10	<3	0.57	40	0.40	105	13
Paramillos Norte																				
TH102	28,160	8.6	0.33	60	270	3.0	16	0.43	<0.5	59	4	>330	>15.00	<10	<1	0.20	30	0.05	70	60
TH98	30	<0.2	0.45	<2	40	<0.5	<2	0.16	<0.5	1	26	7	2.06	<10	<1	0.20	80	0.05	35	1
TH99	<5	<0.2	0.33	<2	110	<0.5	<2	0.56	<0.5	<1	26	26	1.83	<10	<1	0.31	30	0.09	35	1
Paramillos Centro																				
EY61	<5	<0.2	0.78	<2	20	<0.5	<2	1.07	<0.5	1	55	12	1.53	<10	<1	0.08	<10	0.25	265	1
TH115	5	<0.2	2.01	<2	70	<0.5	<2	0.57	1.0	5	30	3	5.02	<10	<1	0.10	30	1.06	3,020	1
TH116	10	3.6	0.65	150	330	1.5	<3	0.47	1.5	15	<3	791	>15.00	<10	<1	0.09	<10	0.04	335	10
Grupo Oro del Sur																				
TH120	40	<0.2	1.23	3	90	<0.5	<2	0.19	<0.5	1	83	70	2.66	<10	<1	0.31	<10	0.33	75	12
La Negrita																				
EY42	<5	5.8	1.05	<2	40	<0.5	<2	1.73	3.0	5	36	8	2.57	<10	1	0.36	10	0.59	945	1
EY43	<5	0.2	1.17	<2	200	<0.5	<2	3.65	<0.5	9	32	6	3.39	<10	<1	0.29	10	0.59	1,490	<1
TH68	<5	<0.2	0.07	2	<10	<0.5	2	>15.00	<0.5	11	247	9	1.06	<10	<1	<0.01	<10	0.56	450	<1
San Benicio																				
EY44	<5	<0.2	0.39	<2	60	<0.5	<2	0.08	<0.5	<1	116	391	0.85	<10	<1	0.16	<10	0.01	35	20
EY45	310	<0.2	0.60	<2	10	<0.5	<2	0.39	<0.5	8	67	286	1.56	<10	<1	0.07	<10	0.06	35	5
EY57	60	1.6	0.29	<2	70	<0.5	<2	0.49	<0.5	<1	56	72	1.48	<10	<1	0.21	<10	0.05	30	3
EY58	35	<0.2	0.27	2	30	<0.5	<2	0.46	<0.5	<1	55	29	0.57	<10	<1	0.08	<10	0.05	5	6
SB01	<5	0.2	0.48	6	130	<0.5	2	0.82	<0.5	<1	46	287	2.30	<10	<1	0.30	<10	0.03	15	37
SB02	<5	<0.2	0.22	<2	60	<0.5	<2	0.05	<0.5	<1	138	71	1.23	<10	<1	0.27	<10	0.01	15	101
SB03	20	0.8	0.96	8	130	<0.5	2	0.21	<0.5	<1	69	401	6.76	<10	<1	1.27	20	0.03	5	4
SB04	10	<0.2	0.51	<2	20	<0.5	<2	0.25	<0.5	2	59	97	1.25	<10	<1	0.11	30	0.06	45	2
SB05	10	<0.2	0.54	<2	20	<0.5	<2	0.15	<0.5	1	117	170	1.11	<10	<1	0.45	<10	0.03	5	5
SB06	10	<0.2	0.63	2	30	<0.5	<2	0.39	<0.5	8	72	570	2.11	<10	<1	0.25	10	0.38	110	4
SB07	<5	<0.2	0.60	<2	30	<0.5	<2	0.17	<0.5	6	125	183	1.95	<10	<1	0.49	10	0.56	90	1
SB08	<5	0.2	1.69	6	60	<0.5	<2	0.18	<0.5	4	121	87	1.27	10	<1	1.08	10	0.98	125	11

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
ATH355	0.01	1	30	10	<2	<3	3	<0.01	<10	<10	5	<10	<2
ATH356	0.01	1	90	50	<2	<3	5	<0.01	<10	<10	8	<10	<2
ATH357	<0.01	<1	80	8	<2	1	5	<0.01	<10	<10	5	<10	<2
Castano Nuevo													
EY24	0.05	6	350	102	<2	2	60	0.08	<10	<10	16	<10	32
Leoncito													
EY54	0.05	1	230	6	<2	1	10	<0.01	<10	<10	5	<10	80
TH92	<0.01	1	310	16	<2	<1	34	<0.01	<10	<10	3	<10	60
TH93	0.05	2	360	22	<2	1	10	<0.01	<10	<10	8	<10	56
Alcaparrosa													
EY04	0.11	39	340	<2	<2	8	26	0.05	<10	<10	97	<10	24
San Jorge													
TH79	<0.01	3	600	8	<2	3	7	<0.01	<10	<10	36	<10	10
Yalguaraz													
TH83	0.02	5	240	42	10	<3	10	<0.01	<10	<10	5	420	20
Paramillos Sur													
TH133	<0.01	3	140	2	<2	4	<1	0.05	<10	<10	30	<10	26
Paramillos Norte													
TH102	0.05	11	4,610	10	<2	9	640	<0.01	<10	20	<3	260	96
TH98	0.08	<1	340	2	<2	2	77	0.06	<10	<10	23	<10	16
TH99	0.08	<1	290	6	<2	1	47	<0.01	<10	<10	16	<10	8
Paramillos Centro													
EY61	0.12	1	920	8	<2	<3	66	0.08	<10	<10	13	<10	52
TH115	0.05	1	1,360	<2	<2	8	30	0.08	<10	<10	43	<10	3,395
TH116	0.02	<1	430	3,415	46	<3	50	<0.01	10	30	8	10	9,450
Grupo Oro del Sur													
TH120	0.05	3	600	10	<2	5	38	0.06	<10	<10	38	<10	228
La Negrita													
EY42	0.04	3	840	36	<2	5	58	0.03	<10	<10	58	<10	208
EY43	0.06	3	1,200	6	<2	4	120	0.01	<10	<10	73	<10	56
TH68	<0.01	244	120	8	<2	1	322	<0.01	<10	<10	6	<10	<2
San Benicio													
EY44	0.05	3	60	2	<2	<3	27	<0.01	<10	<10	7	<10	2
EY45	0.21	4	240	<2	<2	5	214	0.07	<10	<10	66	<10	12
EY57	0.04	1	160	4	<2	3	27	<0.01	<10	<10	7	<10	6
EY58	0.17	3	130	30	<2	<3	35	<0.01	<10	<10	8	<10	2
SB01	0.06	5	580	20	<2	2	67	<0.01	<10	<10	11	<10	76
SB02	0.03	3	90	2	<2	1	56	0.01	<10	<10	6	<10	4
SB03	0.26	9	470	<2	<2	5	231	<0.01	<10	<10	26	<10	8
SB04	0.05	2	230	<2	<2	1	209	0.02	<10	<10	39	<10	6
SB05	0.17	3	110	6	<2	1	73	0.01	<10	<10	20	<10	6
SB06	0.06	6	720	<2	<2	3	32	0.11	<10	<10	63	<10	16
SB07	0.01	12	350	<2	<2	6	32	0.06	<10	<10	69	<10	10
SB08	0.04	6	290	<2	<2	10	15	0.16	<10	<10	83	<10	16

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
SB09	<5	<0.2	0.84	6	50	<0.5	<2	0.58	<0.5	3	33	30	1.16	<10	<1	0.03	10	0.09	115	<1
SB10	<5	<0.2	0.65	10	50	<0.5	<2	0.76	<0.5	3	17	66	1.51	<10	<1	0.25	30	0.33	305	1
SB11	<5	<0.2	0.54	2	80	<0.5	3	0.56	<0.5	6	35	82	2.37	<10	<1	0.12	10	0.23	425	<1
SB13	65	<0.2	0.45	<2	50	<0.5	3	0.30	<0.5	5	68	177	3.69	<10	<1	0.21	10	0.23	45	16
SB14	10	0.6	0.64	14	30	<0.5	6	0.17	<0.5	6	132	<10	2.23	<10	<1	0.25	30	0.20	55	3
SB15	70	0.2	0.50	4	20	<0.5	2	0.09	<0.5	45	185	492	2.43	<10	<1	0.14	<30	0.28	145	7
SB16	20	0.2	0.31	6	20	<0.5	<2	0.17	<0.5	7	67	265	2.19	<10	<1	0.15	<30	0.16	30	23
SB17	10	<0.2	0.65	8	60	<0.5	<2	0.10	<0.5	6	335	66	3.48	<10	<1	0.22	10	0.60	95	<1
SB18	<5	<0.2	0.42	<2	50	<0.5	<2	0.14	<0.5	<1	25	115	2.02	<10	<1	0.23	<10	0.03	15	2
SB19	120	1.0	0.37	<2	20	<0.5	<2	0.15	<0.5	3	80	84	0.67	<10	<1	0.31	<10	0.15	20	28
SB20	20	0.2	0.36	<2	60	<0.5	<2	0.23	<0.5	<1	51	79	1.76	<10	<1	0.30	<10	0.05	20	31
SB21	20	0.2	0.27	<2	30	<0.5	2	0.03	<0.5	<1	50	106	0.59	<10	<1	0.15	<10	0.01	5	2
SB24	<5	<0.2	0.33	<2	240	<0.5	<2	1.46	<0.5	1	37	6	0.61	<10	<1	0.26	30	0.03	65	8
SB25	<5	<0.2	0.26	<2	40	<0.5	<2	0.31	<0.5	<2	25	16	0.19	<10	<1	0.17	<10	0.01	30	3
SB26	330	0.2	0.58	6	40	<0.5	2	0.10	<0.5	8	69	74	3.45	<10	<1	0.12	10	0.03	5	13
SB27	90	0.6	0.31	6	20	<0.5	<2	0.07	<0.5	8	179	211	2.00	<10	<1	0.21	<10	0.50	30	13
SB28	<5	0.2	0.53	6	30	<0.5	2	0.18	<0.5	<1	23	80	1.33	<10	<1	0.18	<10	0.03	<5	1
SB29	20	0.2	0.40	8	110	<0.5	<2	0.09	<0.5	<1	50	130	2.22	<10	<1	0.33	<10	0.03	20	8
SB31	70	0.6	0.52	2	110	<0.5	2	0.08	<0.5	<1	30	94	0.75	<10	<1	1.08	<10	0.02	15	23
SB32	80	0.6	0.36	30	110	<0.5	2	0.23	<0.5	<1	37	69	1.63	<10	<1	0.46	<10	0.01	25	1
SB33	35	0.2	0.27	4	10	<0.5	<2	0.15	<0.5	<1	30	15	0.73	<10	<1	0.18	<10	0.06	<5	1
SB34	20	<0.2	0.84	8	10	<0.5	<2	0.17	<0.5	7	119	405	3.86	<10	<1	0.45	10	0.50	75	7
SB35	20	<0.2	0.63	2	60	<0.5	4	0.13	<0.5	<1	53	73	1.18	<10	<1	0.29	<10	0.01	5	35
TM71	<5	0.2	0.41	4	60	<0.5	<2	0.15	<0.5	1	118	246	2.10	<10	<1	0.51	<10	0.02	70	63
TM72	20	0.2	0.10	<2	30	<0.5	2	0.03	<0.5	<1	201	305	0.84	<10	<1	0.15	<10	0.01	20	35
TM73	70	<0.2	0.18	<2	30	<0.5	<2	0.03	<0.5	1	219	108	2.08	<10	<1	0.23	<10	0.01	20	33
TM74	30	1.4	0.63	<2	70	<0.5	<2	0.07	<0.5	3	364	834	1.63	<10	<1	0.40	50	0.31	45	101
TM75	35	1.6	0.38	<2	110	<0.5	8	0.06	<0.5	<2	36	63	1.56	<10	<1	0.38	<10	0.03	5	2
Pampa Fria																				
TM62	<5	<0.2	0.08	508	<10	<0.5	<2	0.10	<0.5	12	303	35	5.95	<10	<1	0.03	<10	0.03	80	17
TM63	<5	<0.2	0.06	585	20	<0.5	<2	0.16	<0.5	28	455	5,520	>35.00	<10	2	0.06	<10	0.13	25	9
Corral																				
EX06	<5	<0.2	0.07	<2	10	<0.5	<2	33.35	<0.5	<1	8	1	0.14	<10	<1	<0.01	<10	1.57	1,115	2
TM13	260	2.6	0.35	64	70	<0.5	<2	0.92	<0.5	<1	24	6	2.59	<10	<1	0.68	10	0.03	10	1
TM16	not/ae	0.8	5.55	<2	20	1.5	<2	9.21	1.0	22	6	74	2.54	<10	1	0.01	<10	0.55	5,290	1
Creston Amarillo																				
TM106	20	<0.2	1.19	<2	60	<0.5	<2	0.63	<0.5	13	26	5	4.16	<10	<1	0.29	<10	0.48	130	8
Cerro Blanco																				
EY53	<5	0.2	0.45	34	680	<0.5	<2	0.07	<0.5	<1	64	8	0.63	<10	<1	0.16	60	0.47	75	1
EY52	<5	<0.2	0.59	2	90	<0.5	<2	1.33	<0.5	4	83	20	2.25	<10	<1	0.10	<30	0.31	580	<1
EY53	<5	0.2	0.56	<2	810	<0.5	<2	0.16	<0.5	<1	40	6	1.20	<10	<1	0.23	20	0.05	45	<1
TM67	<5	<0.2	0.83	6	150	<0.5	<2	0.14	<0.5	<1	53	13	0.95	<10	<1	0.25	30	0.12	45	1
TM68	60	<0.2	0.83	<2	70	<0.5	<2	0.17	<0.5	<1	38	8	3.05	<10	<1	0.21	<10	0.09	20	2
TM69	10	0.6	0.45	30	40	<0.5	<2	0.04	<0.5	<1	108	31	0.52	<10	<1	0.24	30	0.03	30	2
Cerro Venezuera																				
AEY301	<5	<0.2	1.00	12	600	<0.5	<2	0.04	<0.5	<3	70	32	1.03	<30	<1	<0.01	<10	0.01	5	<1
AEY302	5	0.2	0.58	14	20	<0.5	<2	0.46	<0.5	<3	67	6	0.25	<30	<1	0.33	40	0.07	10	1
AEY303	<5	0.2	0.19	24	50	<0.5	6	0.10	<0.5	<3	31	3	1.47	<10	<1	0.38	<10	0.03	5	1

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
SB09	0.08	6	340	6	<2	<1	65	0.03	<10	<10	24	<10	24
SB10	0.03	15	630	8	<2	<1	35	<0.01	<10	<10	63	<10	32
SB11	0.08	1	820	<2	<2	1	53	0.09	<10	<10	89	<10	26
SB13	0.03	2	340	2	<2	3	147	0.09	<10	<10	43	<10	16
SB14	0.02	14	650	<2	<2	1	11	<0.01	<10	<10	23	<10	26
SB15	0.01	29	250	<2	<2	1	7	<0.01	<10	<10	27	<10	10
SB16	0.05	4	320	2	<2	<1	38	<0.01	<10	<10	23	<10	12
SB17	0.05	6	210	2	<2	3	26	0.32	<10	<10	49	<10	12
SB18	0.06	1	260	<2	<2	1	42	<0.01	<10	<10	14	<10	6
SB19	0.04	1	210	<2	<2	3	113	0.03	<10	<10	24	<10	6
SB20	0.06	<1	310	2	<2	1	69	<0.01	<10	<10	24	<10	6
SB21	0.09	2	350	<2	<2	<1	29	<0.01	<10	<10	9	<10	6
SB24	0.06	<1	360	<2	<2	<1	31	<0.01	<10	<10	12	<10	8
SB25	0.07	<1	60	2	<2	<1	23	<0.01	<10	<10	7	<10	2
SB26	0.08	8	240	<2	<2	2	109	0.02	<10	<10	21	<10	2
SB27	0.05	3	260	2	<2	3	65	0.01	<10	<10	23	<10	10
SB28	0.09	<1	50	<2	<2	<1	34	<0.01	<10	<10	11	<10	2
SB29	0.07	<1	280	<2	<2	2	57	<0.01	<10	<10	15	<10	2
SB33	0.05	<1	320	2	<2	1	62	<0.01	<10	<10	19	<10	6
SB32	0.02	<1	290	<2	<2	<1	42	<0.01	<10	<10	5	<10	4
SB33	0.13	<1	240	<2	<2	<1	30	<0.01	<10	<10	5	<10	6
SB34	0.03	14	430	<2	<2	2	15	0.06	<10	<10	62	<10	30
SM55	0.02	1	160	14	<2	<1	85	<0.01	<10	<10	4	<10	2
TM71	0.03	32	450	2	<2	9	28	0.05	<10	<10	51	<10	8
TM72	0.02	5	30	2	<2	<1	62	<0.01	<10	<10	4	<10	2
TM73	0.03	6	70	2	<2	1	29	<0.01	<10	<10	20	<10	2
TM74	0.03	6	230	4	<2	6	225	0.05	<10	<10	56	<10	6
TM75	0.06	3	80	<2	<2	<1	52	<0.01	<10	<10	18	<10	<2
Pampa Fria													
TM62	<0.01	145	60	<2	36	1	8	<0.01	<10	<10	8	<10	84
TM63	0.01	<10	300	<2	104	1	27	<0.01	<10	<10	31	<10	98
Corral													
EX06	0.06	1	10	20	<2	<1	102	<0.01	<10	<10	2	<10	80
TM13	<0.01	1	500	30	2	1	26	<0.01	<10	<20	15	<30	52
TM16	<0.01	10	60	6	<2	1	73	0.01	<30	<10	23	<30	3,650
Creston Amarillo													
TM106	0.10	<1	1,250	12	<2	1	55	<0.01	<30	<10	29	<30	10
Cerro Blanco													
EY51	0.01	1	270	22	<2	1	26	<0.01	<10	<10	8	<10	36
EY52	0.06	2	500	2	<2	2	21	0.11	<10	<10	73	<10	86
EY53	0.07	1	210	6	<2	<1	64	<0.01	<10	<10	5	<10	8
TM67	0.07	1	160	12	<2	<1	17	<0.01	<10	<10	5	<10	10
TM68	0.05	<1	260	6	2	<1	13	<0.01	<10	<10	10	<10	6
TM69	0.02	2	60	6	2	<1	6	<0.01	<10	<10	<1	<10	36
Cerro Venezuera													
AEY301	<0.01	<2	70	26	6	1	67	<0.01	<30	<30	13	<10	<2
AEY302	0.01	<1	80	12	2	1	9	<0.01	<10	<10	6	<10	<2
AEY303	0.01	<1	100	10	<2	<1	5	<0.01	<10	<10	11	<10	<2

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Be_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
ARY306	<5	<0.2	0.51	226	30	<0.5	2	0.10	<0.5	<1	72	3	3.58	<10	<1	0.23	<10	<0.01	20	<1
ARY305	<5	<0.2	0.64	200	170	<0.5	0	0.05	<0.5	<1	58	20	11.70	<10	<1	0.62	50	0.01	20	<1
ASN301	<5	<0.2	0.45	58	30	<0.5	24	0.56	<0.5	5	93	32	3.58	<10	<1	0.01	<10	0.11	20	<1
ASN302	<5	<0.2	0.60	26	40	<0.5	2	0.09	<0.5	<1	37	2	0.98	<10	<1	0.10	<10	0.03	5	1
ASN303	<5	<0.2	0.12	34	<10	<0.5	<2	0.03	<0.5	<1	79	30	3.48	<10	<1	0.10	<10	0.02	5	1
ASN304	<5	<0.2	0.35	2	50	<0.5	0	0.26	<0.5	<1	45	6	0.72	<10	<1	0.19	<10	0.03	20	30
ASN305	<5	<0.2	0.10	6	<10	<0.5	<2	0.23	<0.5	<1	52	5	0.31	<10	<1	<0.01	<10	0.01	15	<1
ASN306A	<5	<0.2	0.32	16	70	<0.5	2	0.04	<0.5	<1	53	5	0.97	<10	<1	0.27	<10	0.01	5	<1
ATN301	<5	<0.2	0.39	16	100	<0.5	6	1.16	<0.5	3	105	7	1.21	<10	<1	0.11	<10	0.09	42	3
ATN302	15	0.2	0.76	66	50	<0.5	12	0.58	<0.5	4	27	10	3.99	<10	<1	0.26	<10	0.06	55	<1
ATN304	<5	<0.2	0.33	46	50	<0.5	32	0.43	<0.5	3	58	8	2.85	<10	<1	0.47	<10	<0.01	90	3
ATN305	<5	<0.2	0.48	16	80	<0.5	<2	0.23	<0.5	<1	83	1	0.62	<10	<1	0.07	<10	0.01	15	<1
ATN306	30	<0.2	0.42	16	60	<0.5	16	0.70	<0.5	<1	21	2	1.39	<10	<1	0.30	<10	0.04	5	<1
ATN307	<5	<0.2	0.76	360	140	<0.5	2	0.03	<0.5	<1	18	24	6.47	<10	<1	0.01	<10	0.01	<5	<1
ATN308	<5	<0.2	0.58	18	200	<0.5	<2	0.06	<0.5	<1	26	9	0.91	<10	<1	0.05	<10	<0.01	5	3
ATN309	45	0.6	0.13	24	1,290	<0.5	<2	0.09	0.5	<1	133	9	0.46	<10	<1	0.04	<10	0.01	65	<1
Portezuelo de Amarillo																				
ARY309	<5	<0.2	0.16	20	30	<0.5	<2	0.02	<0.5	2	141	13	2.35	<10	<1	0.01	<10	0.03	15	56
ARY310	<5	<0.2	2.05	36	10	<0.5	<2	0.16	<0.5	9	50	2	2.95	<10	<1	0.24	<10	1.85	170	<1
ASN312	<5	<0.2	2.11	56	70	0.5	2	1.84	<0.5	12	49	24	6.19	<10	<1	0.31	30	2.53	1,320	<1
ATN316	<5	0.6	0.47	20	160	<0.5	<2	0.41	<0.5	3	150	15	1.40	<10	<1	0.07	<10	0.06	45	10
ATN319	<5	3.2	1.11	22	80	<0.5	4	0.04	<0.5	<1	55	19	3.01	<10	<1	0.27	30	0.18	25	1
ATN320	<5	2.6	3.66	34	130	<0.5	6	0.09	<0.5	<1	23	25	3.19	<10	<1	0.87	20	0.68	20	<1
ATN321	<5	<0.2	0.41	24	50	<0.5	2	0.06	<0.5	1	83	15	2.05	<10	<1	0.14	10	0.02	20	20
Potrerillos																				
ASN313	<5	<0.2	0.08	30	80	<0.5	<2	0.04	<0.5	2	200	10	1.73	<10	1	0.05	<10	<0.01	30	6
ATN322	<5	<0.2	1.00	2	120	<0.5	<2	0.01	<0.5	<1	24	6	0.27	<10	<1	0.40	<10	0.06	5	<1
Samoso																				
ATN324	<5	<0.2	0.42	6	50	<0.5	<2	0.03	<0.5	<1	81	3	2.05	<10	<1	0.20	30	0.03	145	1
Vicuña (El Salado)																				
ARY324	15	<0.2	1.87	8	440	<0.5	<2	0.19	<0.5	<1	76	38	3.23	<10	<1	0.52	20	0.26	20	10
ASN348	<5	<0.2	0.57	16	290	<0.5	<2	0.21	<0.5	1	35	12	3.58	<10	<1	0.23	10	0.11	20	<1
ASN348B	115	<0.2	2.82	6	320	0.5	<2	0.69	<0.5	3	104	630	3.65	<10	<1	0.78	20	0.95	80	5
ASN350	130	0.2	3.24	6	300	0.5	<2	0.87	<0.5	2	97	936	3.03	<10	<1	0.47	30	0.40	35	10
ASN351A	80	<0.2	3.88	2	320	<0.5	<2	0.15	<0.5	6	93	1,090	3.96	<10	<1	0.65	10	0.93	115	<1
ASN351B	1,530	5.6	0.25	10	10	<0.5	<2	0.01	<0.5	3	261	2,470	3.75	<10	<1	0.04	<10	0.05	55	10
ASN352	85	<0.2	1.58	6	650	<0.5	<2	0.31	<0.5	<1	63	197	3.75	<10	<1	0.25	10	0.15	10	10
ATN387	30	1.4	0.66	36	920	<0.5	<2	0.25	<0.5	<1	102	8	3.46	<10	<1	0.29	10	0.06	330	2
ATN390	160	1.8	1.87	196	1,150	0.5	<2	0.08	<0.5	1	137	674	3.47	<10	<1	0.40	20	0.29	60	202
ATN391	155	0.2	2.91	26	170	<0.5	<2	0.08	<0.5	1	74	645	3.35	<10	<1	0.56	20	0.59	30	30
ATN393	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
ATN394	250	0.4	1.36	10	320	0.5	<2	0.14	<0.5	6	206	6,090	5.29	<10	<1	0.53	10	0.73	325	1
ATN395	515	0.6	0.66	8	50	<0.5	2	0.04	<0.5	9	40	6,690	>15.00	40	<1	0.12	<10	0.24	335	1
ATN396	55	<0.2	1.39	26	310	3.5	3	0.32	6.0	20	45	7,820	>15.00	30	<1	0.35	<10	0.50	235	59
ATN397	195	0.6	1.16	22	300	<0.5	<2	0.12	3.0	6	87	2,790	9.53	<10	<1	0.56	30	0.75	90	12
Pastran																				
ARY341	15	12.2	0.55	126	140	2.5	<2	0.11	<0.5	26	55	28	5.76	<10	<1	0.23	30	0.05	2,260	7

Geochemical grade assay result

sample	Na_%	Nb_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Th_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
ARY304	0.10	<1	110	6	<2	<1	52	<0.01	<10	<10	15	<10	<2
ARY306	0.38	<1	3,360	100	8	6	597	<0.01	<10	<10	103	<10	36
ASN301	0.02	2	560	20	2	1	81	<0.01	<10	<10	7	<10	6
ASN302	0.01	<1	200	6	<2	1	4	<0.01	<10	<10	3	<10	<2
ASN303	0.09	<1	470	6	<2	<1	9	<0.01	<10	<10	18	<10	<2
ASN304	0.02	<1	10	30	2	<1	8	<0.01	<10	<10	5	<10	<2
ASN305	<0.01	<1	40	4	<2	<1	14	<0.01	<10	<10	3	<10	<2
ASN306A	0.03	<1	40	4	<2	<1	13	<0.01	<10	<10	3	<10	<2
ATN301	0.04	3	70	8	<2	<1	6	<0.01	<10	<10	7	<10	6
ATN302	0.04	1	510	10	<2	1	18	<0.01	<10	<10	23	<10	34
ATN304	0.11	1	330	10	2	1	75	<0.01	<10	<10	9	<10	<2
ATN305	0.09	1	320	6	2	1	39	<0.01	<10	<10	12	<10	<2
ATN306	0.01	<1	190	12	2	3	24	<0.01	<10	<10	11	<10	<2
ATN307	<0.01	<1	30	6	4	<1	28	<0.01	<10	<10	49	<10	<2
ATN308	<0.01	<1	30	2	<2	3	14	<0.01	<10	<10	16	<10	<2
ATN309	<0.01	3	60	54	2	<1	33	<0.01	<10	<10	3	<10	32
Portezuelo de Amarillo													
ARY309	0.01	4	190	6	<2	<1	41	<0.01	<10	<10	5	<10	2
ARY310	0.07	12	290	12	<2	2	38	<0.01	<10	<10	34	<10	16
ASN312	0.01	16	600	12	<2	1	37	<0.01	<10	<10	25	<10	80
ATN315	0.03	5	130	616	<2	<1	27	<0.01	<10	<10	5	<10	22
ATN319	0.03	<1	490	8	4	1	51	<0.01	<10	<10	11	<10	6
ATN320	0.03	<1	310	10	6	1	37	<0.01	<10	<10	13	<10	10
ATN321	0.02	1	460	14	<2	1	20	<0.01	<10	<10	7	<10	10
Potrerillos													
ASN313	0.02	4	150	20	<2	1	7	<0.01	<10	<10	20	<10	6
ATN322	0.05	<1	<10	12	2	1	53	<0.01	<10	<10	11	<10	2
Samoso													
ATN324	0.04	1	110	12	<2	<1	7	<0.01	<10	<10	<1	<10	8
Vicuña (El Salado)													
ARY334	0.10	1	980	16	<2	1	283	<0.01	<10	<10	9	<10	22
ASN348	0.06	<1	360	10	<2	<1	33	<0.01	<10	<10	4	<10	16
ASN348B	0.04	4	610	36	<2	5	276	0.15	<10	<10	59	<10	62
ASN350	0.08	1	340	44	<2	3	60	0.05	<10	<10	30	<10	30
ASN351A	0.04	7	660	14	<2	5	93	0.17	<10	<10	66	<10	88
ASN351B	0.02	3	260	38	<2	<1	30	<0.01	<10	<10	39	<10	34
ASN352	0.03	<1	80	30	<2	2	48	0.01	<10	<10	29	<10	14
ATN387	0.09	3	1,260	30	<2	<1	76	<0.01	<10	<10	5	<10	20
ATN390	0.03	2	910	198	<2	3	326	0.03	<10	<10	35	<10	34
ATN391	0.03	3	240	64	<2	5	58	0.08	<10	<10	69	<10	42
ATN393	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
ATN394	0.04	3	620	20	<2	4	130	0.12	<10	<10	65	<10	80
ATN395	<0.01	3	300	18	<2	5	29	0.02	<10	<10	290	<10	56
ATN396	<0.01	11	3,210	18	2	3	34	0.05	<10	<10	74	<10	500
ATN397	0.05	4	350	14	<2	4	22	0.12	<10	<10	53	<10	84
Pastran													
ARY341	<0.01	14	190	12	2	3	21	<0.01	<10	<10	24	20	122

Geochemical grade assay result

sample	Au_ppb	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_%	Ga_ppm	Hg_ppm	K_%	La_ppm	Mg_%	Mn_ppm	Mo_ppm
Cerro Negro																				
EX02	<5	<0.2	0.60	26	619	<0.5	<2	5.90	<0.5	21	332	20	5.39	<10	<1	0.04	<10	1.98	1,019	2
EX02a	15	<0.2	2.28	2	300	1.0	<2	3.84	<0.5	32	369	44	6.55	<10	1	0.26	30	3.38	849	1
EX03	<5	<0.2	3.03	<2	230	0.5	<2	1.75	<0.5	24	253	39	5.02	30	<1	0.08	30	3.09	800	<1
TH01	<5	<0.2	0.53	18	320	<0.5	<2	>35.00	<0.5	7	26	172	3.47	<10	14	0.05	<10	0.34	3,040	2
TH02	<5	<0.2	0.01	30	170	<0.5	<2	31.25	<0.5	7	16	84	5.31	<10	3	<0.01	<10	4.31	8,660	1
TH03	<5	<0.2	0.16	8	250	<0.5	<2	33.55	<0.5	5	33	55	3.31	<10	12	0.01	<10	5.11	3,035	1
TH04	<5	<0.2	0.08	<2	70	<0.5	<2	38.95	<0.5	2	<1	1	2.75	<10	2	<0.01	<10	8.10	375	<1
camp location																				
EX05	<5	<0.2	3.57	2	20	<0.5	<2	0.87	<0.5	20	61	5	2.23	<10	<1	0.08	<10	1.32	510	<1
Leonarda																				
AFY369	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
Southeast of Margarita																				
AFY359b	<5	0.4	0.34	8	35	<0.5	<2	0.01	<0.5	<2	145	45	0.27	<10	<1	0.17	<10	<0.01	25	92
AFY360	<5	1.6	0.51	34	70	0.5	<2	0.05	0.5	10	157	69	0.53	<10	<1	0.15	10	0.03	3,425	4
ASM381	<5	<0.2	0.39	9	30	0.5	<2	0.05	<0.5	3	136	8	0.59	<10	<1	0.16	<10	<0.01	305	3
ATK424	<5	<0.2	0.75	28	30	<0.5	<2	0.05	<0.5	<2	115	75	0.22	<10	<1	0.21	<10	<0.01	20	1
ATK427	10	<0.2	3.78	444	150	<0.5	<2	0.05	<0.5	<2	61	110	0.47	<10	<1	0.32	30	0.06	15	<2
Banos del Golfete																				
ACM418	<5	<0.2	0.02	4,620	220	0.5	<2	>15.00	<0.5	11	3	<2	9.58	<10	<1	0.07	<10	0.37	5,290	1

Geochemical grade assay result

sample	Na_%	Ni_ppm	P_ppm	Pb_ppm	Sb_ppm	Sc_ppm	Sr_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm
Cerro Negro													
EX02	0.06	51	1,190	8	18	14	56	0.03	<10	<10	95	<10	52
EX02a	0.03	145	900	<2	2	18	84	<0.01	<10	<10	99	<10	82
EX03	0.23	79	1,270	<2	<2	10	49	0.14	<10	<10	120	<10	74
TH01	<0.01	11	150	<2	32	6	92	<0.01	<10	<10	85	<10	28
TH02	<0.01	2	30	<2	24	7	100	<0.01	<10	<10	50	<10	74
TH03	<0.01	11	60	<2	16	2	327	<0.01	<10	<10	35	<10	32
TH04	<0.01	5	30	2	<2	<1	337	<0.01	<10	<10	2	<10	26
camp location													
EX05	0.02	15	510	12	<2	4	76	0.11	<10	<10	29	<10	82
Leonarda													
AFY369	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
Southwest of Margarita													
AFY359b	0.03	2	60	82	<2	<1	2	<0.01	<10	<10	<1	<10	54
AFY360	<0.01	4	90	34	<2	<1	8	<0.01	<10	<10	3	<10	176
ASM381	0.03	5	<10	30	<2	<1	3	<0.01	<10	<10	<1	<10	84
ATK424	0.09	2	30	42	<2	1	37	<0.01	<10	<10	<1	<10	8
ATK427	0.04	<1	240	20	2	2	43	0.07	<10	<10	13	<10	36
Banos del Golfete													
ASM418	0.24	1	35	9	46	<1	3,270	<0.01	40	<10	<2	30	56

Ore grade assay result

sample	Au_ppb	Ag_ppm	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
El Polvo																		
ASM212	<5	<1	6.90	100	<10	<20	0.05	<10	<10	100	10	1.35	2.1	0.15	30	30	0.20	<30
ASM213	15	<1	7.45	200	<10	<20	0.35	<10	<10	100	10	0.75	3.2	0.20	30	<10	0.30	<10
ASM214	30	<1	6.75	300	<10	<20	<0.05	<10	<10	370	50	0.80	2.5	0.20	20	60	0.15	<10
ASM215	55	<1	8.15	800	<10	<20	0.25	<10	<10	95	320	0.45	2.3	0.10	80	110	0.55	<10
ATM240	530	<1	8.90	500	<10	<20	0.55	<10	<30	140	3,190	0.80	3.3	0.15	60	80	2.55	<10
Criolita																		
ASM365	60	3	8.10	<100	<10	<20	3.75	<10	50	50	2,900	20.60	<0.1	8.95	2,300	<10	0.05	<10
Rio Blanco																		
ASM218	<5	<1	3.20	200	<10	<20	0.10	<10	<10	200	10	0.50	1.1	0.05	80	<10	0.05	<10
ASM219	175	<1	3.30	800	<10	<20	0.30	<10	<10	240	10	0.55	<0.1	<0.05	30	<10	0.05	<10
ASM220	20	<1	2.70	<100	<10	<20	0.05	<10	<10	200	50	0.40	1.2	0.05	30	<10	0.05	<10
La Vicunita																		
ATM220	6,680	117	3.30	300	<10	20	0.55	<10	<10	190	12,900	4.00	1.2	0.45	2,170	<10	<0.05	<10
La Olita																		
ASM201	125	8	6.45	200	<10	<20	0.05	<10	<10	200	150	30.00	1.5	0.25	230	<10	0.25	10
ASM202	125	<8	6.95	400	<10	<20	0.30	<10	<10	60	240	9.85	2.5	0.40	140	<10	0.60	10
ASM204	105	<1	7.35	700	<10	<20	0.05	<10	<10	50	370	0.50	3.1	0.50	120	<10	0.30	<10
ASM206	10	1	0.90	600	<10	<20	0.30	<10	<10	60	60	0.30	0.3	<0.05	2,080	<10	0.05	<10
ASM207	280	4	0.85	<100	<10	<20	0.15	<10	<10	200	30	0.35	0.2	<0.05	260	<10	<0.05	<10
Las Tamberias																		
ASM208	30	<1	7.60	1,000	<10	<20	0.15	<10	<10	30	10	3.30	1.9	0.30	160	<10	2.15	<10
Las Aguaditas																		
ASM357	3,670	22	2.20	100	<10	100	1.75	<10	40	90	230	28.30	0.7	0.60	560	30	0.70	20
Helvecia																		
TM07	30	25	0.40	1,500	<10	<20	3.50	500	<10	60	410	0.30	<0.1	0.30	90	<10	0.05	<10
TM12	1,345	260	0.55	8,200	<10	<20	0.15	2,430	10	<10	3,310	0.50	0.1	0.05	30	50	0.05	30
Bordo Atravezado																		
ASM221	<5	<1	6.60	700	<10	<20	0.05	<30	<10	70	30	1.85	2.9	0.10	20	<10	0.20	<30
ASM222	405	1	3.40	300	<10	<20	0.45	<30	<10	60	810	24.60	0.6	0.05	60	30	0.20	<30
ASM224a	10	<1	8.95	500	<10	<20	0.10	<30	<10	50	10	1.00	3.2	0.15	30	<10	0.25	<30
Los Mogotes																		
ASM228	5	<1	3.70	500	<10	<20	0.25	<10	<10	80	190	0.10	1.3	0.05	10	<10	0.30	<30
ASM229	<5	<1	6.05	800	<10	<20	0.15	<20	<10	330	60	0.35	2.1	0.10	10	30	0.25	<30
ATM267	10	<1	5.50	800	<10	<20	0.50	<30	<10	320	90	0.45	2.4	0.05	10	590	0.15	<30
Abundancia																		
SM35	10	2	6.65	1,300	<10	<20	1.15	<10	20	160	140	5.85	5.3	0.05	60	330	1.55	<30
SM36	<5	1	6.15	300	<10	<20	15.25	<20	<10	30	<30	3.45	2.1	7.30	3,230	<10	0.10	<30
SM37	80	<1	0.45	<100	<10	<20	36.30	<10	<10	10	10	0.20	<0.1	1.65	190	<30	<0.05	<30
SM38	<5	1	0.70	<100	<10	<20	23.20	<10	<10	10	10	0.60	0.3	31.85	270	10	<0.05	<30
SM39	<5	1	0.25	<100	<10	<20	22.70	<10	<10	10	840	0.20	0.1	32.55	320	<10	<0.05	<30
SM40	5	2	0.10	<100	<10	<20	13.40	30	<10	<10	840	0.75	<0.1	35.20	1,270	30	0.05	<30
TM56	1,340	6	3.35	<100	<10	320	0.15	<30	36,740	110	38,700	12.85	1.0	3.00	240	<10	<0.05	50

Ore grade assay result

sample	Pb_ppm	Se_ppm	Ti_%	V_ppm	Zn_ppm
El Polvo					
ASM212	<0.001	20	0.05	<10	20
ASM213	<0.001	30	0.10	10	<20
ASM214	<0.001	<30	0.05	10	<20
ASM215	<0.001	120	0.05	20	<20
ATM240	<0.001	70	<0.05	10	30
Criolita					
ASM365	0.005	30	<0.05	<10	220
Rio Blanco					
ASM218	<0.001	20	<0.05	<10	20
ASM219	<0.001	40	<0.05	<10	<20
ASM220	0.004	<30	0.05	<10	20
La Vicunita					
ATM220	0.162	30	0.10	50	1,920
La Olita					
ASM201	0.018	70	0.05	70	80
ASM202	0.008	110	0.15	100	80
ASM204	0.016	80	0.20	190	50
ASM206	0.008	50	<0.05	10	40
ASM207	0.008	40	<0.05	<10	60
Las Tamberias					
ASM208	<0.001	210	0.30	80	20
Las Aguaditas					
ASM357	0.034	640	<0.05	60	620
Helvecia					
TM07	0.098	2,030	<0.05	30	80,700
TM12	87.000	230	<0.05	30	2,920
Bordo Atravezado					
ASM221	0.002	30	0.05	<30	20
ASM222	0.004	350	<0.05	140	60
ASM224a	<0.001	120	0.05	<30	<20
Los Mogotes					
ASM228	<0.001	30	0.05	10	20
ASM229	0.003	90	0.05	20	<20
ATM267	0.001	50	<0.05	<10	20
Abundancia					
SM35	0.012	540	0.10	10	160
SM36	0.005	50	0.15	20	160
SM37	0.013	200	<0.05	10	200
SM38	0.003	220	<0.05	10	60
SM39	0.005	190	<0.05	<10	300
SM40	0.004	<10	<0.05	<10	6,800
TM56	0.001	<10	0.10	20	40

Ore grade assay result

sample	Au_ppb	Ag_ppm	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
Guachi																		
SM32	625	1	3.45	<100	<10	<20	1.35	<10	30	110	<10	22.70	1.1	0.45	70	<10	0.15	20
SM33	1,250	0	2.15	<100	<10	<20	0.35	<10	30	160	220	>10 %	1.0	0.15	80	<10	0.05	20
SM34	22,400	70	1.50	<100	<10	<20	2.05	1,000	30	120	1,420	9.45	1.6	0.25	1,330	<10	0.05	<10
TM49	50	2	4.25	<100	<10	<20	0.25	<10	270	110	2,500	13.10	1.8	3.05	320	<10	<0.05	<10
TM50	360	6	3.20	100	<10	<20	0.55	<10	10,290	170	8,650	9.05	1.1	0.90	360	<10	<0.05	90
TM51	690	3	1.80	300	<10	20	0.05	<10	8,430	130	13,530	11.40	1.9	0.65	220	<10	0.05	20
TM52	50	5	4.15	<100	<10	<20	0.45	<10	10,410	160	35,000	13.55	0.8	1.35	840	<10	<0.05	70
El Fierro alteration																		
SM28	<5	1	4.65	200	<10	<20	0.45	<10	<10	80	30	8.55	2.2	0.25	50	<10	0.15	<10
SM29	<5	1	5.45	100	<10	<20	0.10	<10	<10	150	30	2.00	2.6	0.40	50	<10	0.75	<10
SM30	<5	<1	7.10	500	<10	<20	0.20	<10	<10	110	20	0.75	3.5	0.15	30	<10	2.60	<10
SM31	<5	1	6.70	300	<10	<20	0.15	<10	<10	90	130	10.65	2.6	0.05	270	<10	1.30	<10
Cerro Amarillo																		
ASM225	<5	<1	9.65	100	<10	<20	0.15	<10	30	10	20	1.25	0.1	<0.05	2,660	<10	0.15	<10
ASM227	5	<1	9.55	1,100	<10	<20	0.10	<10	<10	300	10	0.45	1.7	0.20	90	<10	0.15	<10
ASM231	<5	<1	9.55	300	<10	<20	0.10	<10	<10	140	10	0.15	0.8	<0.05	20	<10	3.10	<10
ASM232	<5	<1	9.05	900	<10	<20	0.15	<10	<10	130	10	2.90	1.5	<0.05	10	<10	3.60	<10
ASM233	<5	<1	8.20	800	<10	<20	0.70	<10	<10	80	40	0.65	3.2	0.20	210	<10	2.50	<10
Zancarron																		
ABY393	6,380	145	2.00	600	<10	110	0.05	<10	<10	360	61,200	3.40	0.6	<0.05	50	<10	0.15	<10
El Salado																		
ASM344	<5	573	1.35	10,600	<10	<20	0.45	260	10	110	1,050	12.80	0.1	<0.05	58,900	<10	<0.05	<10
Las Oponas																		
ASM356	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
ASM355A	590	465	2.20	300	<10	<20	0.05	30	<10	300	320	1.70	1.0	0.65	520	30	0.05	<10
El Carrizal																		
SM25	<5	<1	1.00	200	<10	<20	3.55	<10	<10	130	60	2.95	0.1	1.00	930	<10	0.55	10
SM26	60	2	4.05	100	<10	<20	0.05	<10	70	330	1,060	8.30	0.4	2.25	3,420	<10	0.05	100
Quebrada de Chita																		
SM17	15	<1	0.50	<100	<10	<20	0.05	<10	<10	270	<90	0.45	<0.1	<0.05	30	50	0.05	<10
SM18	35	<1	10.20	1,500	<10	<20	0.20	<10	<10	70	<70	1.20	0.1	0.20	80	320	2.35	<10
SM19	35	1	10.35	600	<10	<20	0.15	<10	<10	40	400	2.45	0.9	0.20	60	200	2.65	<10
SM20	30	1	10.00	400	<10	<20	0.10	<10	<10	40	330	2.20	0.8	0.30	30	30	1.50	<10
SM21	60	2	9.15	300	<10	<20	0.25	<10	<10	60	30	0.85	0.6	0.20	100	40	0.30	<10
SM22	55	6	8.40	500	<10	<20	0.10	<10	<10	110	150	1.75	0.2	0.25	60	<10	0.15	<10
SM23	<5	1	9.00	700	<10	<20	0.25	<10	<10	70	20	0.15	0.7	0.30	20	<10	0.40	<10
SM24	<5	<1	8.60	900	<10	<20	0.20	<10	<10	40	20	0.90	0.3	0.45	50	20	0.80	<10
TM25	20	1	8.80	900	<10	<20	0.40	<10	<10	60	680	1.50	0.3	0.60	200	240	0.55	<10
TM27	35	6	9.40	1,000	<10	<20	1.05	60	<10	50	450	1.30	1.9	0.25	70	<10	3.65	<10
TM28	825	5	5.95	400	<10	<20	3.15	<10	380	220	9,370	20.10	0.8	2.90	1,000	<10	1.55	13,270
TM31	70	2	7.30	900	<10	<20	1.25	<10	<10	10	8,060	1.50	2.7	0.35	270	570	2.45	20
TM32	25	6	3.85	<100	<10	2,300	3.45	<10	<10	10	830	3.75	0.3	<0.05	700	3100	0.05	<10
TM33	15	5	9.25	<100	<10	<20	0.65	<10	8,060	100	36,370	22.00	0.7	5.50	830	10	0.05	90

Tocota District

Ore grade assay result

sample	Pb_ppm	Sr_ppm	Ti_%	V_ppm	Zn_ppm
Guachi					
SM32	0.001	70	0.15	170	60
SM33	0.023	10	0.20	160	360
SM34	5.900	30	0.15	40	>100000
TM49	0.002	<10	0.20	60	40
TM50	0.003	10	0.10	20	20
TM51	0.002	<10	0.10	20	20
TM52	0.003	30	0.15	30	60
El Fierro alteration					
SM28	0.003	30	<0.05	20	<20
SM29	0.006	30	<0.05	<30	20
SM30	0.003	60	<0.05	<30	20
SM31	0.009	60	0.05	30	260
Cerro Amarillo					
ASM225	0.011	1,470	0.05	10	140
ASM227	0.002	160	0.15	30	20
ASM231	0.016	280	0.05	10	<20
ASM232	0.020	760	0.20	90	<20
ASM233	0.001	240	0.20	30	100
Zancarron					
ABY393	0.015	310	0.30	10	20
El Salado					
ASM344	15,650	540	0.05	40	52,950
Las Oponas					
ASM356	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
ASM355A	0.246	<10	<0.05	<10	6,740
El Carrizal					
SM25	0.002	80	0.10	70	60
SM26	0.001	70	<0.05	30	100
Quebrada de Chita					
SM17	0.002	10	<0.05	<10	60
SM18	0.006	420	0.15	80	120
SM19	0.004	330	0.20	50	80
SM20	0.002	140	0.20	80	60
SM21	0.002	50	0.15	80	20
SM22	0.003	40	0.10	70	20
SM23	<0.001	50	0.10	60	<20
SM24	0.001	350	0.15	50	<20
TM25	0.020	470	0.25	60	490
TM27	0.381	360	0.30	80	4,860
TM28	0.010	230	0.30	320	260
TM31	0.003	460	0.10	50	40
TM32	0.047	30	<0.05	<10	3,560
TM33	0.002	<10	0.65	70	100

Tocota District

Ore grade assay result

sample	Au_ppb	Ag_ppm	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
ASH339	6,210	4	5.65	1,900	<10	1,860	0.05	<10	30	320	2,910	6.15	6.5	<0.05	50	10	0.07	10
San Francisco																		
EY07	215	51	8.60	<100	<10	640	0.45	<10	30	170	210	6.50	0.3	1.35	150	50	0.55	30
SM13	90	45	2.90	<150	<10	Error	0.60	<10	60	70	>100,000	2.90	0.1	0.50	220	30	0.20	30
El Retamal																		
SM14	<5	<1	8.15	<100	<10	<20	0.40	<10	<10	<10	230	8.55	1.9	1.05	60	<10	0.45	<10
SM15	<5	<1	8.30	500	<10	<20	0.50	<10	30	70	60	3.75	2.9	0.90	50	<10	2.10	20
Castano Viejo District																		
ASH307	520	117	2.60	<100	<10	<20	0.05	150	<10	230	1,360	1.95	0.8	0.10	260	<10	0.05	30
ASH308	6,100	397	0.35	<100	<10	320	19.90	70	<10	80	5,910	6.75	<0.1	1.30	52,600	50	<0.05	10
Quatro Amigos																		
ASY307	185	32	2.15	500	<10	80	10.05	20	<10	70	1,930	4.10	0.5	3.45	32,300	20	0.05	<10
AZH317	325	20	0.95	<100	<10	<20	2.25	160	<10	250	300	2.40	0.4	0.05	1,320	<10	0.05	<10
Castano Nuevo																		
SM24	25	<1	8.45	500	<10	<20	1.30	<10	10	130	6,070	3.80	2.8	0.50	830	30	0.95	20
San Jorge																		
SM46	395	8	8.55	1,800	<10	20	0.15	<10	<10	130	6,930	1.15	6.6	0.60	360	<30	0.35	<10
SM47	225	2	5.55	300	<10	60	0.05	<10	<10	170	950	8.65	2.8	0.45	230	<30	0.15	<10
SM77	6,300	8	1.30	<100	<10	<20	9.25	<10	50	1,170	30	5.80	0.6	5.00	40,800	<10	0.05	950
Yalguaraz																		
EY46	<5	<1	7.50	600	<10	<20	1.75	<10	<10	330	<50	2.35	4.2	0.90	190	10	1.95	10
EY49	30	<1	6.60	800	<10	<20	0.65	<10	<10	210	70	5.70	3.5	0.55	90	<10	0.25	<10
SM40	20	1	6.90	600	<10	<20	1.30	<10	<10	200	150	2.35	3.4	0.70	190	<10	2.05	10
SM49	2,120	16	6.35	3,700	<10	160	0.20	<10	260	190	8,450	6.45	6.2	0.40	120	<10	0.25	320
Paramillos Sur																		
SM59	65	1	7.90	1,000	<10	<20	0.50	<10	<10	60	120	2.05	7.2	0.30	70	130	0.40	<10
Paramillos Norte																		
SM56	135	<1	9.80	900	<10	<20	0.55	<10	<10	30	950	2.90	6.4	0.15	70	70	2.05	10
SM57	80	<1	10.05	1,000	<10	<20	0.45	<10	<10	40	510	4.55	7.1	0.10	40	610	2.00	30
Paramillos Centro																		
SM63	<5	<1	8.75	1,700	<10	<20	0.30	<10	<10	40	80	4.55	6.5	0.45	1,220	<10	2.10	<10
Grupo Oro del Sur																		
EY42	<5	<1	9.15	1,200	<10	<20	0.50	<10	<10	120	30	0.80	8.1	0.40	170	20	2.35	<10
EY43	4,080	28	6.90	100	<10	<20	0.10	<10	<10	10	1,020	0.70	3.1	0.35	130	10	0.20	<10
EY64	4,980	9	2.30	<100	<10	20	0.20	<10	40	30	2,050	>30.0	0.9	0.15	180	410	<0.05	10
EY65	26,590	280	3.05	<100	<10	12,940	0.35	<10	<10	200	8,690	9.15	0.6	0.05	540	60	40.05	<10
SM68	280	1	2.40	700	<10	<20	0.35	<10	<10	50	80	19.05	2.3	0.05	110	<10	1.85	<10
SM65	30	1	8.50	1,100	<10	<20	0.30	<10	<10	60	60	3.55	5.1	0.20	700	<10	2.60	<10
La Negrita																		
SM42	8,320	1770	0.05	<100	<10	80	2.15	210	<10	20	2,590	3.60	0.4	0.75	>100000	<10	0.15	330
SM44	9,800	244	6.15	3,600	<10	60	0.30	70	<10	50	70	2.50	4.5	0.35	>100000	<10	0.25	10
TM64	50	<1	9.80	300	<10	<20	0.20	<10	<10	250	3,210	1.55	0.7	0.35	110	<10	0.30	<10

Ore grade assay result

sample	Pb_ppm	Sr_ppm	Ti_%	V_ppm	Zn_ppm
ASH339	0.021	70	<0.05	<10	100
San Francisco					
EY07	0.350	110	0.25	340	120
SM13	0.169	70	0.05	40	220
El Retamal					
SM14	0.005	10	0.35	60	20
SM15	0.003	50	0.35	70	<20
Castano Viejo District					
ASH303	2.040	30	0.05	40	26,000
ASH308	2.760	70	<0.05	<10	6,930
Quatro Amigos					
ASY307	0.247	60	0.05	30	3,430
AZH317	0.100	10	<0.05	10	72,400
Castano Nuevo					
SM16	0.007	290	0.40	60	60
San Jorge					
SM45	0.002	70	0.20	40	<20
SM47	0.001	20	0.20	40	<20
SM77	0.003	490	<0.05	80	300
Yalguaraz					
EY45	0.001	250	0.30	60	60
EY49	0.005	50	0.40	110	<20
SM48	0.001	290	0.25	60	60
SM49	0.012	70	0.30	90	120
Paramillos Sur					
SM59	<0.001	210	0.10	50	<20
Paramillos Norte					
SM56	<0.001	930	0.20	50	<20
SM57	<0.001	630	0.20	60	<20
Paramillos Centro					
SM63	<0.001	350	0.25	50	880
Grupo Oro del Sur					
EY42	0.002	160	0.10	<10	40
EY43	0.029	50	0.20	50	80
EY34	0.020	20	0.05	50	740
EY45	0.105	30	<0.05	10	280
SM04	<0.001	330	0.25	30	220
SM05	<0.001	600	0.20	30	160
La Negrita					
SM42	3.085	3,250	<0.05	<10	18,360
SM44	0.022	1,660	0.30	80	2,060
TM64	<0.001	60	0.15	70	<20

Ore grade assay result

sample	Au_ppb	Ag_ppm	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
San Benicio																		
BY56	30	2	0.10	800	<10	<20	0.15	<10	<10	190	140	1.65	0.4	0.50	53	90	0.80	10
SM45	15	1	0.35	1,000	<10	<20	0.15	<10	<10	150	50	0.05	0.3	0.10	250	50	0.70	<10
Pampa Fria																		
BY43	<5	<1	0.35	300	<10	<20	15.45	<10	10	950	30	2.00	0.5	9.30	470	<10	0.05	360
BY55	<5	<1	0.25	<300	<10	<20	8.95	<10	40	850	30	2.30	<0.1	5.30	650	<10	<0.05	3,240
PF-A1	30	<1	0.25	350	<10	<20	30.70	<10	250	760	350	4.35	0.5	8.45	920	<10	<0.05	1,410
PF-A2	<5	<1	0.45	<300	<10	<20	15.65	<10	50	1,350	20	3.65	<0.1	9.75	710	<10	<0.05	1,250
PF-A3	<5	1	0.35	300	<10	<20	8.65	<10	60	1,650	10	3.05	<0.1	16.30	730	<10	<0.05	1,760
PF-A4	<5	<1	0.50	300	<10	<20	17.10	<10	40	1,050	10	3.00	<0.1	10.00	1,100	<10	<0.05	990
PF-B1	<5	<1	0.30	<300	<10	<20	16.60	<10	40	760	<10	2.90	0.1	9.40	660	<10	<0.05	860
PF-B2	<5	<1	0.35	<300	<10	<20	17.00	<10	40	1,000	10	2.95	0.1	9.10	720	<10	<0.05	950
PF-B3	<5	<1	0.50	<300	<10	<20	15.55	<10	40	1,050	10	3.10	0.1	8.70	640	<10	<0.05	1,050
PF-B4	<5	<1	0.65	<300	<10	<20	18.25	<10	40	960	10	2.80	0.1	8.65	640	<10	<0.05	740
PF-B5	<5	<1	0.60	300	<10	<20	13.05	<10	60	1,580	10	2.70	0.1	6.45	520	<10	<0.05	1,090
PF-B6	<5	<1	0.60	<300	<10	<20	19.55	<10	30	1,790	10	3.35	0.3	10.30	750	<10	<0.05	650
PF-C2	<5	<1	0.50	300	<10	<20	16.00	<10	30	900	10	3.05	<0.1	10.45	860	<10	<0.05	810
PF-C3	<5	<1	0.35	<300	<10	<20	23.70	<10	40	870	30	2.35	<0.1	12.05	1,090	<10	<0.05	520
PF-C4	<5	<1	0.50	300	<10	<20	19.60	<10	20	850	10	2.70	0.2	10.50	760	<10	<0.05	650
PF-D1	<5	<1	0.45	300	<10	<20	17.00	<10	30	790	10	2.60	0.1	9.25	660	<10	<0.05	630
PF-D2	<5	<1	0.30	<300	<10	<20	16.20	<10	30	925	10	2.50	0.1	8.50	680	<10	<0.05	570
PF-D3	<5	<1	0.50	<300	<10	<20	16.65	<10	40	1,130	10	2.95	0.2	9.20	630	<10	<0.05	670
PF-D4	<5	<1	0.50	300	<10	<20	16.65	<10	40	1,060	10	2.90	0.2	9.10	690	<10	<0.05	660
PF-E1	<5	<1	0.55	200	<10	<20	19.55	<10	50	1,370	<10	3.30	<0.1	11.20	730	<10	<0.05	960
PF-E10	<5	<1	0.25	<300	<10	<20	15.70	<10	60	890	20	3.10	0.1	8.55	730	<10	<0.05	700
PF-E2	<5	<1	0.30	<300	<10	<20	30.00	<10	30	1,510	<10	2.45	0.1	10.95	930	<10	<0.05	610
PF-E3	<5	<1	0.50	<300	<10	<20	21.30	<10	350	1,310	2,360	4.95	0.2	3.25	920	<10	<0.05	730
PF-E35	<5	<1	0.25	<300	<10	<20	21.00	<10	10	620	<10	2.25	0.1	10.75	640	<10	<0.05	180
PF-E4	10	<1	0.25	100	<10	<20	9.35	<10	50	1,370	30	3.45	0.2	8.40	920	<10	<0.05	950
PF-E5	<5	<1	0.20	300	<10	<20	21.30	<10	20	580	30	2.95	0.1	12.00	1,160	<10	<0.05	620
PF-E6	<5	<1	0.45	300	<10	<20	18.70	<10	50	840	30	5.50	0.1	4.65	590	<10	<0.05	2,240
PF-E7	<5	<1	0.05	<300	<10	<20	10.80	<10	20	440	<10	2.95	<0.1	10.50	550	<10	<0.05	520
PF-E8	<5	<1	0.40	<300	<10	<20	27.85	<10	80	820	<10	2.80	0.2	9.70	980	<10	<0.05	670
PF-E9	<5	<1	0.35	300	<10	<20	26.40	<10	30	830	30	2.65	<0.1	8.50	900	<10	<0.05	610
PF-F1	<5	<1	0.40	100	<10	<20	16.85	<10	60	490	10	3.15	0.1	8.45	720	<10	0.05	850
PF-F2	15	<1	0.55	100	<10	<20	16.95	<10	60	8,220	10	3.05	0.2	7.75	830	<10	<0.05	840
PF-F3	<5	<1	0.50	<100	<10	<20	13.75	<10	30	1,140	10	2.35	0.2	7.30	540	<10	<0.05	550
PF-F4	10	<1	0.50	<100	<10	<20	16.35	<10	40	1,090	10	3.30	0.2	6.70	740	<10	<0.05	1,060
PF-F5	<5	<1	0.90	<100	<10	<20	15.75	<10	50	1,370	10	3.60	0.4	9.80	570	<10	<0.05	1,200
PF-G2	<5	<1	0.35	300	<10	<20	18.90	<10	50	630	300	3.35	0.1	6.55	790	<10	<0.05	850
PF-G3	<5	<1	0.35	<300	<10	<20	22.90	<10	90	660	360	4.35	0.1	9.40	1,340	<10	<0.05	1,300
PF-G4	<5	<1	0.10	100	<10	<20	18.55	<10	30	530	<10	2.35	<0.1	10.10	710	<10	<0.05	540
PF-H1	<5	<1	0.35	100	<10	<20	14.40	<10	50	590	10	2.85	0.1	6.50	660	<10	0.05	700
PF-H2	<5	<1	0.35	100	<10	<20	17.65	<10	40	900	<10	2.70	0.1	10.65	870	<10	<0.05	820
PF-H3	<5	<1	0.45	100	<10	<20	18.60	<10	40	1,060	<10	2.70	0.1	11.70	890	<10	<0.05	960
PF-H4	<5	<1	0.45	300	<10	<20	16.50	<10	40	1,290	10	3.25	0.2	11.20	860	<10	<0.05	980
PF-I1	<5	<1	0.35	100	<10	<20	26.45	<10	30	850	10	2.55	0.1	9.00	550	<10	<0.05	600
PF-I2	<5	<1	0.65	200	<10	<20	31.05	<10	40	9,550	10	2.55	0.1	7.50	670	<10	<0.05	750
PF-I3	<5	<1	0.25	1,300	<10	<20	24.20	<10	40	9,050	<10	2.25	0.1	7.55	800	<10	<0.05	860
PF-I4	<5	<1	0.10	<100	<10	<20	15.60	<10	50	660	10	3.00	<0.1	9.45	760	<10	<0.05	700

Ore grade assay result

sample	Pb_ppm	Sr_ppm	Ti_%	V_ppm	Zn_ppm
San Benicio					
BY56	0.001	260	0.05	70	<20
SM45	0.001	240	0.10	50	<20
Pampa Fria					
BY43	0.001	1,150	<0.05	20	30
BY55	<0.001	330	<0.05	20	20
PF-A1	0.001	360	<0.05	10	20
PF-A2	0.001	470	<0.05	30	20
PF-A3	<0.001	190	<0.05	10	40
PF-A4	0.003	810	<0.05	30	20
PF-B1	0.002	480	<0.05	20	20
PF-B2	0.003	410	<0.05	20	20
PF-B3	0.003	450	<0.05	30	20
PF-B4	0.002	370	<0.05	30	20
PF-B5	0.003	640	<0.05	20	40
PF-B6	0.003	360	<0.05	40	20
PF-C2	0.002	860	<0.05	30	60
PF-C3	0.003	650	<0.05	10	20
PF-C4	0.003	580	<0.05	30	<20
PF-D1	0.002	800	<0.05	30	20
PF-D2	0.003	430	<0.05	10	20
PF-D3	0.003	450	<0.05	30	20
PF-D4	0.001	450	<0.05	20	60
PF-E1	0.003	580	<0.05	20	20
PF-E10	0.003	440	<0.05	30	20
PF-E2	0.003	410	<0.05	20	20
PF-E3	0.003	360	<0.05	20	60
PF-E35	0.003	440	<0.05	20	20
PF-E4	0.001	40	<0.05	30	20
PF-E5	0.003	1,870	<0.05	10	20
PF-E6	0.002	220	<0.05	10	<20
PF-E7	0.003	510	<0.05	<10	20
PF-E8	0.003	350	<0.05	10	<20
PF-E9	0.002	500	<0.05	10	20
PF-F1	0.002	430	<0.05	30	40
PF-F2	0.003	470	<0.05	40	40
PF-F3	0.003	390	<0.05	20	20
PF-F4	0.003	190	<0.05	20	20
PF-F5	0.004	400	<0.05	60	20
PF-G2	0.003	490	<0.05	30	20
PF-G3	0.004	200	<0.05	30	40
PF-G4	0.002	560	<0.05	30	20
PF-H1	0.002	440	<0.05	20	40
PF-H2	0.003	580	<0.05	20	60
PF-H3	0.004	430	<0.05	30	40
PF-H4	0.004	480	<0.05	30	60
PF-I1	0.003	1,870	<0.05	20	40
PF-I2	0.003	630	<0.05	40	300
PF-I3	0.003	680	<0.05	10	60
PF-I4	0.002	320	<0.05	10	20

Ore grade assay result

sample	Au_ppb	Ag_ppm	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
PE-15	5	1	0.45	230	<10	<20	10.30	<10	40	1,280	<10	2.85	0.3	9.90	300	<10	<0.05	750
PE-30	5	<1	0.25	190	<10	<20	14.35	<10	60	970	<10	3.60	<0.1	10.00	930	<10	<0.05	1,370
PE-31	10	<1	0.25	200	<10	<20	10.30	<10	50	680	<10	3.95	0.1	7.60	1,040	<10	<0.05	950
PE-32	5	<1	0.95	300	<10	<20	5.45	<10	10	170	10	1.25	0.4	3.20	240	<10	<0.05	330
PE-33	5	<1	0.35	<100	<10	<20	17.05	<10	30	1,010	10	3.10	0.1	8.60	820	<10	<0.05	560
PE-34	<5	<1	0.40	100	<10	<20	16.90	<10	45	1,030	<10	3.05	0.1	8.75	530	<10	<0.05	370
SM53	<5	1	0.65	100	<10	<20	12.60	<10	50	1,200	10	3.15	<0.1	12.20	800	<10	<0.05	1,850
SM57	10	<1	0.45	100	<10	<20	10.80	<10	30	670	20	1.85	0.1	3.45	630	<10	0.05	1,060
SM56	<5	<1	0.30	150	<10	<20	12.90	<10	<10	350	20	1.80	0.1	7.70	650	<10	0.05	200
Corral																		
SM07	845	<1	4.55	450	<10	<20	3.05	<10	<10	100	40	2.90	5.6	3.30	390	<10	0.50	30
SM08	60	<1	0.50	100	<10	<20	14.90	<10	<10	10	10	0.55	0.6	0.85	1,020	<10	0.05	<10
SM09	230	<1	2.20	1,300	<10	<20	11.70	20	50	30	70	8.80	2.4	0.55	4,630	<10	0.05	60
SM10	5	<1	0.25	100	<10	<20	21.30	<10	<10	30	30	0.20	0.1	12.85	210	<10	0.05	<10
TM14	3,360	27	2.95	400	<10	<20	8.05	980	20	60	3,710	3.05	3.1	2.25	8,440	30	0.15	40
Creston Amarillo																		
EY59	<5	1	11.00	700	<10	<20	0.30	<10	<10	30	10	2.25	5.0	0.35	60	<10	1.25	<10
EY49	<5	<1	11.20	900	<10	<20	0.40	<10	<10	30	60	2.80	5.0	0.35	60	<10	0.60	<10
Cerro Blanco																		
EY50	335	1	7.50	500	<10	<20	0.60	<10	<10	100	20	1.55	3.1	0.60	190	<10	2.90	<10
SM50	25	3	8.05	1,300	<10	<20	0.50	<10	<10	80	40	2.60	2.1	0.35	140	<10	0.05	<10
Vicunita (El Salado)																		
ASM349A	190	<1	5.50	700	<10	<20	0.25	<10	<10	330	510	2.45	2.0	0.20	90	20	1.30	<10
Pastran																		
ASM360	10	<1	0.75	600	<10	<20	0.65	<10	<10	160	40	3.50	3.5	0.85	490	<10	0.80	40
Andesita ledge																		
SM01	5	<1	3.15	2,100	<10	<20	13.90	<10	<10	50	10	3.90	<0.1	6.30	1,670	<10	0.60	30
Cerro Negro																		
SM04	<5	<1	0.45	900	<10	<20	17.85	<10	10	60	30	4.65	<0.1	4.65	1,470	<10	<0.05	50
camp location																		
SM11	<5	<1	7.00	1,300	<10	<20	0.25	<10	<10	80	50	13.35	0.6	0.15	50	<10	0.50	<10
Leonardo																		
ASM358	20	1	0.45	<100	10	<20	0.30	<10	10	30	<10	530.0	<0.1	<0.05	990	<10	0.05	<10

Ore grade assay result

sample	Pb_ppm	Sr_ppm	Ti_%	V_ppm	Zn_ppm
PE-15	0.003	630	<0.05	20	20
PE-30	0.003	670	<0.05	20	20
PE-31	0.003	300	<0.05	20	20
PE-32	0.002	100	<0.05	40	60
PE-33	0.003	450	<0.05	20	20
PE-34	0.003	450	<0.05	20	20
SM51	<0.001	530	<0.05	40	930
SM52	0.001	190	<0.05	20	20
SM54	0.001	570	<0.05	20	<20
Corral					
SM07	0.038	100	0.20	40	960
SM08	0.005	320	<0.05	10	80
SM09	0.002	250	0.05	30	1,200
SM10	0.002	110	<0.05	<10	500
TM24	0.260	80	0.20	50	14,100
Creston Amarillo					
EY59	<0.001	200	0.45	120	<20
EY60	<0.001	70	0.40	140	<20
Cerro Blanco					
EY50	<0.001	110	0.35	80	<20
SM50	0.031	470	0.20	20	<20
Vicunita (El Salado)					
ASM349A	0.015	340	0.05	30	300
Pastran					
ASM360	0.004	80	0.50	360	100
Andesita ledge					
SM01	0.004	1,140	0.05	50	60
Cerro Negro					
SM04	0.001	320	0.05	60	100
camp location					
SM11	0.003	3,590	0.25	310	20
Leonardo					
ASM359	0.150	<10	<0.05	<10	700

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
El Potro		
El Potro	ATH229	Qz,Pl,Ser>>>Nal
El Potro	ATH230	Qz,Pl,Ser>>>Nal
El Potro	ATH231	Qz,Ser>>>Nal
El Potro	ATH232	Qz,Pl,Kf>>>S/S
El Potro	ATH233	Qz,Ser>>>Nal
El Potro	ATH239	Qz,Pl,Kf,S/S>>>C/S
El Potro	ATH240	Qz,Pl,Kf,Ser>>>Gyp
El Potro	ATH241	Qz,Pl,Kf>>S/S>Alu
El Potro	ATH242	Qz,Kf,Ser>Pl>>
El Potro	ATH243	Qz,Pl,Kf>>>Ser
Criollita		
Criollita (2nd site)	ASM365	Hem,Lz>>>
Criollita (first site)	ASM362	Qtz>Cal,Dol,Hem>>S/S,Rt
Criollita (first site)	ASM364	Hbl>>Pl>S/S,C/S
Rio Blanco		
Rio Blanco	ASM217	Qz,Kao>>>Ser,Gyp
Rio Blanco	ATH245	Qz,Pyh>Kao>>Nal
Rio Blanco	ATH246	Qz,Pyh>>Kao>
Rio Blanco	ATH247	Qz>>>Gyp,Ant
Rio Blanco	ATH248	Qz,Pl>Kf>>Ser
Rio Blanco	ATH249	Pl>Qz>S/S>Kf
La Vicunita		
La Vicunita	ASM209	Pl>Qz,Kf,Sme>Ser>
La Vicunita	ASM210	Alb>Qz,Ser>>Sme
La Vicunita	ASM211	Qz,Ser>>>Alu,Gyp
La Vicunita	ATH219	Pl>Kf,Chl>Qz,Jar>
La Vicunita	ATH221	Qz,S/S>>Pl>
La Vicunita	ATH222	Qz,Alb>S/S>>
La Vicunita	ATH223	Qz,Chl>Alb>S/S>Jar
La Vicunita	ATH226	>>>Qz
La Vicunita	ATH227	Qz,Ser>>>Nal
La Ollita		
La Ollita	ASM203	Qz>Kao>S/S>Nal
La Ollita	ASM205	Qz,Ser>>>Rut
La Ollita	ATH202	Alb>Qz,Ser>Kao,Nal>Sme,Alu
La Ollita	ATH203	Alb>Qz>S/S,Nal>Alu
La Ollita	ATH205	Qz,Kao,Pyh>Dr,Rut>>Alu,Gyp
La Ollita	ATH206	>Qz,Pl>S/S,Nal>
La Ollita	ATH207	Alb>Qz,Jar>S/S,C/S>Hem
La Ollita	ATH210	Py>Qz,Pl,Chl>Gyp>Sme
La Ollita	ATH211	Qz,Pyh>Dr>Kao>Gyp
Las Tamberias		
Las Tamberias	ATH213	Qz,Alb>S/S>>Gyp
Las Tamberias	ATH214	Qz,Alb>>S/S>Gyp
Las Tamberias	ATH218	>Nal>Qz,Pl>S/S,Alu

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
Ranchillos		
Ranchillos	ATH413	Qtz,Ser>>Rt>
Ranchillos	ATH415	Qtz,Ser>>Kfs>Pl,Nja
Ranchillos	ATH417	Qtz,Ser>>>Gp
Laguna de las Hua		
Lagne de las Huaycas	ASM362	Qtz>>Hem>Rt
North of Laguna de las Huaycas	ATH431	Alu>>Kln>
North of Laguna de las Huaycas	ATH432	Qtz,Alu>>Kln>Hem
North of Laguna de las Huaycas	ATH433	Qtz>>>Kln,Hem,Rt
North of Laguna de las Huaycas	ATH435	Qtz,Kln>Alu>>Hem
North of Laguna de las Huaycas	ATH436	Qtz>Alu,Hem>Kln>
Las Aguaditas		
Agualitas	ATH402	Qtz,Drv>>>Ser,Jar
Agualitas	ATH404	Qtz>Pl>>Hal,S/S
Las Aguaditas	ASM356	Qtz,Drv>>>
Helvecia		
Helvecia	TH07	Soh>Qz,Bar>Cp>
Helvecia	TH11	Qz,Pl,Kf>Ser>>Hal
Las Sapitos		
Las Sapitos	SM02	Qz>Kf,Ser>>Pl,Hal,Jar
Las Sapitos	SM03	Qz,Ser>>>Hal
La Flecha		
La Flecha	ATH437	Qtz,Nal>>Kln>Jar,Gp
La Flecha	ATH438	Qtz,Alu>>Kln>Gp,Rt
La Flecha	ATH439	Qtz,Gp>Nal>>
La Flecha	ATH440	Qtz>>S/S>Alu,Gp,Rt,Nja
La Flecha	ATH441	Qtz>>Kln,Alu>Prl,S/S,Rt
La Flecha	ATH443	Qtz>Alu>>Jar,Gp
La Flecha	ATH444	>Qtz>S/S>Alu,Gp,Nja
La Flecha	ATH445	>>Qtz,S/S>Kln
Rio la Flecha	AKY364	Qtz,Nalx>Gp,Sub>Kln,Rt
Rio la Flecha	ASM385	Qtz,Nal>>>Rt
Rio la Flecha	ASM386	Qtz>Gp,Nal>Prl>Kln
Rio la Flecha	ASM387	>Qtz,Nal>Nja>Kln,Gp,Rt
Rio la Flecha	ASM388	Qtz>Prl>>S/S,Alu,Gp,Nja
Rio la Flecha	ASM389	Nal>>>Kln,Jar,Gp,Rt
Bordo Atravezado		
Bordo Atravezado	ASM223	Qz,Ser>Nal>>Gyp
Bordo Atravezado	ATH251	Qz,Pl,Kf>>>S/S,C/S
Bordo Atravezado	ATH252	Qz,Ser>>>Gyp
Bordo Atravezado	ATH253	Qz,Ser>>>
Bordo Atravezado	ATH254	Qz,Ser>>>
Bordo Atravezado	ATH256	Qz>Ser,Kao>Kf,Nal>Gyp
Bordo Atravezado	ATH257	Qz,Ser>Py>Kfx>Kao
Bordo Atravezado East	AKY370	Qtz>>Alu>Dsp
South of Bord Atravesado	ATH449	Qtz>>Ser>Prl,Alu

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
South of Bord Atravesado	ATH450	Qtz>Kln>Alu>Ser
West of Bord Atravesado	ATH447	Qtz,Pl>Kfs>>
West of Bord Atravesado	ATH446	Qtz,Kfs>Pl>Kln>Ser
Margarita		
West of camp of Cajon de la Brea	ATH456	Stl>Cbz>Pl,Hem>Kfs,S/S
West of camp of Cajon de la Brea	ATH457	Stl>Cal,Cbz>Pl>S/S
Los Mogotes		
Los Mogotes	ATH267	Qz,Ser>>>Gyp
Los Mogotes	ATH268	Qz,Ser>>Gyp>
Los Mogotes	ATH272	Gyp>Qz,Ser>>Rut
Los Mogotes	ATH273	Qz,Ser>Gyp>>Pl
Los Mogotes	ATH274	Qz,Ser>>>Rut
Los Mogotes	ATH275	Qz,Ser>>>Gyp
Los Mogotes	ATH276	Pl,Kf>Qz,Gyp>>S/S,C/S
Los Mogotes	ATH277	Qz,Ser>Gyp>>
Los Mogotes	ATH278	Qz,Pl,Kf>Chl>>S/S,Jar
Los Mogotes	ATH279	Qz,Pl>Kf>Chl,S/S>Jar
Los Mogotes	ATH280	Pl,Chl>>Qz,Jar>Sme
Cordon de la Inca		
Cordon del Inca	ASM392	Qtz>>>Gp,Rt
Cordon del Inca	ASM395	Qtz>>>S/S,Brt
Easternmost of Cordon de la Inca	ATH451	Qtz>Alu>>Cal
Easternmost of Cordon de la Inca	ATH452	Qtz>>>Rt
Easternmost of Cordon de la Inca	ATH453	Qtz,Dcb>>>Prl
Easternmost of Cordon de la Inca	ATH455	>>Prl>S/S,C/S,Jar,Dsp,Brt
Guachi		
Guachi	TH48	Py>>>Ser,Gyp
Guachi	TH49	Pl>Qz,Kf,Chl>>S/S
El Fierro alteration		
El Fierro alteration	KY24	Qz,Pl,Ser>>Kf>Jar
El Fierro alteration	KY29	Qz,Ser>Chl>>Mas
El Fierro alteration	TH40	Qz,Alb,Ser>>>
El Fierro alteration	TH46	Qz,Ser>>>Jar
Cerro Amarillo		
Cerro Amarillo	ASM224b	Qz,Kf,Ser>>>Nal
Cerro Amarillo	ASM225	Qz,Kao>>Gyp>Alu,Ant
Cerro Amarillo	ASM226	Qz,Bar>Kao>Rut>
Cerro Amarillo	ASM227	Qz,Kao>>S/S>
Cerro Amarillo	ATH258	Qz,Pl,Kf>>>S/S
Cerro Amarillo	ATH261	Qz,Bar>>>Rut
Cerro Amarillo	ATH262	Pl>Chl>Qz,Py>S/S,Clp
Cerro Amarillo	ATH263	Qz>S/S>>Gyp
Cerro Amarillo	ATH264	Qz,Alb>>>S/S,C/S
Cerro Amarillo	ATH265	Qz,Alu>>>Kao,Mor,Gyp
Cerro Amarillo	ATH266	Qz,Pl,Kf>Chl>Jar>S/S
Cerro Amarillo Norte	ASM231	Qz,Bar>>>

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
Cerro Amarillo Norte	ASM232	Qz,Bar>>Rut>Hem
Cerro Amarillo Norte	ASM233	Qz,Pl,Kf>>>S/S,C/S
Cerro Amarillo Norte	ATH281	Qz,Pl,Kf>Chl>>S/S,Jar
Cerro Amarillo Norte	ATH282	Qz,Pl>Kf>>S/S,C/S,Rh
Cerro Amarillo Norte	ATH283	Qz,Bar>>>Rut
Cerro Amarillo Norte	ATH284	Qz,Pl>Kf>>S/S,Gyp
Cerro Amarillo Norte	ATH285	Qz,Bar>>>
Cerro Amarillo Norte	ATH286	Qz,Bar>>>
Cerro Amarillo Norte	ATH287	Pl,Jar>C/S>Qz>Clp
Despoblados		
Despoblados	AKY400	Qtz>>Pl,S/S>Jar
Despoblados	AKY401	Qtz>Ser>>Jar
Despoblados	AKY402a	>Qtz,Ser>>Pl,Kfs,Jar
Despoblados	AKY403	Qtz>>S/S,C/S>Pl,Kfs
Despoblados	ASM419	Qtz>Ser>>Gp
Despoblados	ASM420B	>Qtz,C/S>S/S>Kfs
Despoblados	ATH505	>Kfs>Qtz>Pl,S/S,Jar
Despoblados	ATH506	Ab>Qtz>S/S,Jar>
Despoblados	ATH507	>Qtz,Pl>>S/S,Jar
Despoblados	ATH508	Qtz>Ser>>
Guanaco Zonzo		
Guanaco Zonzo	AKY385	Qtz>>>Brt
Guanaco Zonzo	AKY386	>Qtz,Kfs>>Kln,S/S
Guanaco Zonzo	ASM406	Qtz,Alu>>>
Guanaco Zonzo	ATH474	Qtz>Nal>>
Guanaco Zonzo	ATH476	Qtz,Alu>>>
Guanaco Zonzo	ATH477	Qtz,Kfs>>>Kln,S/S
Veladero Norte		
Veladero Norte	AKY384	Qtz>>>Rt
Veladero Norte	ATH473	Qtz,Rtb>>>
Veladero Sur		
Veladero Sur	AKY387a	Qtz,Nal>>>Kln,Gp,Rt,Dsp,Brt
Veladero Sur	AKY387b	Qtz,Nal>>>Kln,Gp,Rt
Veladero Sur	AKY388	Qtz,Nal>>>Kln,Rt,Nja
Veladero Sur	AKY390	Qtz>>S/S>
Veladero Sur	ATH479	Qtz>Nal>>Kln,S/S,Gp,Rt
Veladero Sur	ATH480	Qtz,Nal>>Kln>Drv,Rt
Veladero Sur	ATH481	Kln>Qtz,Alu>>S/S,Rt
Veladero Sur	ATH482	Qtz,Nal>Kln>>Jar
Veladero Sur	ATH483	Qtz,Nal>Kln>>S/S,Rt,Brt,Nja
Veladero Sur	ATH484	Qtz>>S/S>Gp
Veladero Sur (southern qz vein)	ASM410A	Qtz,Dct>>>
Rio Frio		
Rio Frio	AKY395	>Qtz,Kfs,Alu>>S/S
Rio Frio	AKY396	Qtz,Kln>>>Nal
Rio Frio	AKY397	Qtz>>S/S>Nal,Rt,Nal

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
Rio Frio	AKY399	Qtz>Ser>>Kln,Alu
Rio Frio	ASM416	Qtz,Alu>>>Gp,Rt
Rio Frio	ASM417	Qtz,Ab>>>S/S,Alu,Jar
Rio Frio	ATH495	Qtz,Dct>>Alu>
Rio Frio	ATH497	Qtz>Prl,Alu>>Dsp
Rio Frio	ATH499	Qtz,Nal>>>Gp,Rt
Rio Frio	ATH501	Qtz>Kln>Dsp>Alu,Gp
Rio Frio	ATH502	Qtz,Kln>>>Rt,Nal
Rio Frio	ATH504	>Pl>Qtz>Kfs,C/S,Cal
Zancarron		
Zancarron	AKY392	Qtz,Alu>>>Kln
Zancarron	ATH486	Qtz>Alu>>Kln,S/S,Jar
Zancarron	ATH488	Qtz,Alu>>>Sco
Zancarron	ATH489	Alu>>>Sco
Zancarron	ATH490	Qtz,Alu>>>Jar,Sco
Zancarron	ATH492	Alu>Qtz>>Jar,Sco
Las Openas		
Las Openas	ATH399	Qtz>Alu>>Ser,Jar
San Pedro	AKY336	Qtz>Ser>>
San Pedro (larger)	ASM353B	Qtz,Ser>>>
Carmen Norte		
Carmen Norte	AKY374	Pl>Qtz>C/S>S/S,Cal,Py
Carmen Norte	AKY376	Ab>Qtz>>S/S,C/S,Gp,Py
Carmen Norte	AKY379	Qtz,Kln>Alu>>Rt,Nja
Carmen Norte	AKY381	Qtz>>Alu,Gp>Rt,Sul,Nja
Carmen Norte	AKY382b	>Qtz,Pl>Kln>S/S,Jar
Carmen Norte	ASM397	Qtz>Ab>>S/S
Carmen Norte	ASM398	>Qtz>>S/S,Alu,Jar,Gt
Carmen Norte	ASM399	Qtz>>>Jar,Gp,Hem,Rt
Carmen Norte	ASM400	>Qtz,Pl>>Kfs,Gp,Rt
Carmen Norte	ATH458	Ab>Qtz,Chl,Cal>>S/S,Gp
Carmen Norte	ATH459	Qtz,Nal>>>Gp,Rt
Carmen Norte	ATH460	Alu>>Nja>Qtz
Carmen Norte	ATH461	Qtz>>Alu>Rt,Nja
Carmen Norte	ATH464	Qtz>Kln,Alu,Gp>>Py,Rt
Carmen Norte	ATH465	Qtz>Alu>>Gp
Carmen Norte	ATH468	Qtz>Alu>Jar>Gp,Rt
Carmen Norte	ATH469	Qtz>>>Rt
Carmen Norte	ATH470	Qtz>>>Gp
Quebrada de Chita		
Chita (Au old adit Au)	ASM342	Qtz>Ser>>Py
Quebrada de Chita	KY15	Qz,Ser>>>Rut
Quebrada de Chita	KY16	Qz,Ser>>>Jar,Rut
Quebrada de Chita	KY19	Qz,Ser>>>Jar,Rut
Quebrada de Chita	KY20	Qz,Alb,Ser>>>
Quebrada de Chita	SM18	Pl,Kf>Qz>Ser>Hal

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
Quebrada de Chita	SM19	>Qz,Pl,Kf,Ser>>Hal
Quebrada de Chita	SM20	Qz,Ser>Alb>Hal>
Quebrada de Chita	TH27	Pl>Qtz,Kfs>Ser>Hal,Hem
Quebrada de Chita	TH29	Qz,Ser>>>Py,Rut
Tocota District		
Colocolo	AKY331	Qtz>>Ser>Kln
Mina Colocolo, Tocota	ATH358	>Gp>Pl>Qtz,S/S
Mina Colocolo, Tocota	ATH362	Qtz,Ser>>>Rt,Sco
Mina Kirmer, Tocota	ATH365	Sco>Kfs>Qtz>
Mina Kirmer, Tocota	ATH366	Sco>Drv,Apy>Qtz>
Mina Kirmer, Tocota	ATH368	Qtz>Pl>Ser>Kln
Tocota (Colocolo)	ASM335	Qtz>Ser>>Py,Rt
Tocota (Colocolo)	ASM336	Qtz,Ser>Pl>>Kln
Tocota (Colocolo)	ASM337	Drv>Qtz>>Sco
Tocota (Krimer)	ASM339	Kfs,Sco>>>
Tocota (no name)	ASM340	Qtz>Drv>>
El Retamal		
El Retamal	KY11	Qz,Ser>Dr,Jar>>Rut
El Retamal	KY12	Qz,Ser>>>Dr,Gyp,Rut
El Retamal	SM14	Qz,Dr>Ser>Rut>Hal
El Retamal	SM15	Qtz>Ser,Dr>Pl>Kao,Gyp
Vizcachas		
Viscachaz	ATH325	Qtz,Kfs>Pl>Ser>
Vizcachas	ASM3158	Qtz,Pl>Kfs>>Ser
Castano Viejo Distr		
Animas	ASM309	Qtz>Prl>Drv>Gp
Animas	ASM310	Qtz>Ser>>Jar,Gp,Rt
Mina Animas	ATH313	Gp,Fl>>Qtz>Gn
Mina Animas	ATH315	Qtz>>S/S>Kln,Gp,Rt
Avestruces		
Avestruces	ATH329	Qtz>>>
Avestruces	ATH331	Qtz>>S/S>Jar
Avestruces	ATH332	Qtz>>S/S>
Avestruces	ATH334	Qtz,Dct>>>S/S
Avestruces	ATH337	Qtz,Dct>>>
Avestruces	ATH341	Qtz>>Ser>Drv,Jar,Gp
Avestruces	ATH342	Qtz>Ser>>Drv,Rt
Avestruces	ATH343	Qtz>Kln,Smc>>S/S,Rt
Avestruces (south)	ASM322	Qtz,Kln>>>Goy
Avestruces (south)	ASM324	Qtz>>C/S>S/S
Avestruces (south)	ASM325	Qtz>>S/S>Rt
Avestruces-north	AKY312a	Qtz>>S/S>
Avestruces-north	AKY314	Qtz>>S/S>
Avestruces-north	AKY315a	Qtz>>S/S>Rt
Avestruces-north	AKY316	Qtz>>S/S>Rt
Avestruces-south	AKY318	Qtz,Dct>>>Gp

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
Avestruces-south	AKY320	Qtz>>Ser>Rt
Aveztruces	ASM316	Qtz>>>Rt
Aveztruces	ASM317	Qtz,Dct>>>S/S
Aveztruces	ASM318	Qtz>>Kln>S/S
Aveztruces	ASM319	Qtz>>>Jar,Gp,Rt
Aveztruces	ASM320	Qtz,Dct>>>
Aveztruces	ASM321	Qtz>>S/S>
Manrique		
Manrique	AKY321a	Qtz>>S/S,Drv>Rt
Manrique	AKY324a	Qtz>>Pl,S/S>
Manrique	AKY326	Qtz>Pl>>S/S
Manrique	AKY328	Qtz>>>S/S
Manrique	AKY330	Qtz>>>S/S
Manrique	ASM326	>Qtz,Pl>>S/S
Manrique	ASM327	>Qtz,Pl>>S/S,Jar
Manrique	ASM329A	Qtz,Ab>>S/S>
Manrique	ASM330	Pl>Qtz>Kfs>S/S,C/S
Manrique	ATH347	Qtz>Pl>S/S>
Manrique	ATH348	Qtz>Ser>>
Manrique	ATH351	Qtz>>Ser>
Manrique	ATH352	Qtz>Ab>>Kln,S/S
Manrique	ATH353	Qtz,Ab>>>S/S
Manrique	ATH354	>Qtz,Ab>S/S>
Manrique	ATH356	Qtz>>>S/S
Manrique	ATH357	Qtz>Ser>Drv>Jar,Rt
Manrique (north)	ASM332	Qtz,Ab>>S/S>
Castano Nuevo		
Castano Nuevo	SM16	Pl>Qz>Kf,Gyp>Sme,Lau,Mar
Castano Nuevo	TH24	Qz>Pl,Py>Kf,Mar>S/S
Leoncito		
Leoncito	KY54	Qz,Pl>Kf>>S/S,C/S,Mar
Leoncito	TH92	Qz,Pyr>Alu>>
Leoncito	TH93	Qz,Pl>Kf>>S/S
San Jorge		
San Jorge	SM46	Qz,Kf>Dr>Chl>Ser
Valguaraz		
Valguaraz	SM48	Qz,Pl,Ser>Kf,Chl>>Cal,Py
Paramillos Sur		
Paramillos Sur	SM58	Qz,Ser>>>Jar
Paramillos Sur	TH111	Ser>Jar>>Kf
Paramillos Sur	TH113	Qz,Kf,Bi>>>
Paramillos Norte		
Paramillos Norte	TH99	Pl,Kf>>>S/S
Paramillos Centro		
Paramillos Centro	TH115	Pl,Chl>Qz>Ser>
Paramillos Centro	TH118	Hb>>Qz,Pl>S/S,C/S

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
La Negrita		
La Negrita	TH64	Qz>Dol>>Lau,Cal
San Benicio		
San Benicio	KY44	Qz,Kf>>Pl>Ser
San Benicio	KY45	Pl,Kf>>Qz>Sme,Gyp
San Benicio	KY56	Alb>Qz>>S/S,Gyp
San Benicio	SB02	Qz,Kf>>>Pl,Ser
San Benicio	SB04	Pl>Qz,Kf>>S/S
San Benicio	SB05	Pl,Kf>Qz>>S/S
San Benicio	SB09	Pl,Kf>>Qz>
San Benicio	SB10	Pl,Kf>>S/S>C/S,Cal
San Benicio	SB23	Pl,Kf>>Qz>Hb,Gyp
San Benicio	SB24	Pl,Kf>>Qz,Ser,Cal>
San Benicio	SB25	Pl,Kf>>>Ser
San Benicio	SB29	Pl,Kf>Qz>S/S>
San Benicio	SB32	Kf>Qz>Jar>Ser
San Benicio	SB33	Alb>>Qz,Kf,S/S>Gyp,Jar
Pampa Fria		
Pampa Fria	SM41	Dol>Qz>>Cal
Corral		
Corral	TH14	Gyp,Sme>Kf,Dol>Qz>Hb
Corral	TH16	Gyp>Dol>Rho>
Creston Amarillo		
Creston Amarillo	KY60	Qz,Ser>>>Pl,Gyp
Creston Amarillo	TH103	Qz,Ser>>Pyr>Kao,Rut
Creston Amarillo	TH104	Qz,Cor>>Ser,Dia>
Creston Amarillo	TH105	Qz,Ser>>>Rut
Cerro Blanco		
Cerro Blanco	KY51	Pl,Kf>Qz,C/S>S/S>
Cerro Blanco	KY53	Qz,Alb>>S/S>
Cerro Blanco	TH87	Qz,Alb>>S/S>
Cerro Venezuela		
Cerro Venezuela	ATH302	Qtz>>S/S,Drv>Gp,Rt
Cerro Venezuela	ATH303	Qtz>>S/S>Drv,Rt
Cerro Venezuela	ATH305	Qtz>Alu>>
Cerro Venezuela	ATH306	Qtz>>S/S>Rt
Cerro Venezuela	ATH307	Qtz,Dct>>>Goy,Hem
Cerro Venezuela	ATH308	Qtz,Dct>>>
Venezuera	AKY301	Qtz,Dct>>>Goy
Venezuera	AKY302	Qtz,Ser>>>
Venezuera	AKY303	Qtz>>Drv>S/S,Gp
Venezuera	AKY304	Qtz>Alu>>
Venezuera	AKY305	Qtz>Alu>>Kln,Jar,Rt
Venezuera	ASM301	Qtz>Drv>>Gp
Venezuera	ASM302	Qtz>>S/S,Drv>Gp
Venezuera	ASM303	Qtz>Drv>>Jar,Rt

X-ray diffraction analyses

survey/ area / locality	sample	assemblage
Venezuera	ASM304	Qtz>Dry>>S/S,Jar,Rt
Venezuera	ASM305	Qtz,Dry>>>Rt
Portezuelo de Ama		
Portesuelo de Amarillo	ATH320	Qtz>>S/S>
Portesuelo de Amarillo	ATH321	Qtz>>Dry>S/S
Portesuelo de Amarillos	ATH318	Qtz>Dry>>Jar
Portezuelo Amarillo	AKY310	>Qtz,Ab>Chl>S/S,Gp
Portezuero de Amarillo	ASM312	Qtz>>Pl,Chl,Cal>S/S
Potrerillos		
Portrerillos	ATH322	Qtz>>S/S>Pl
Potrerigeous	ASM314	Qtz>>Pl,S/S>
Vicunita (El Salado		
Vicnita	AKY334	Qtz,Ab,Ser>>>
Vicunita (El Salado)	ATH387	Qtz,Ser>>Pl>
Vicunita (El Salado)	ATH390	Qtz>Kfs>Pl,Ser>Hal
Vicunita (El Salado)	ATH391	Qtz>Pl,Kfs,Ser>>Hal
Vicunita (El Salado)	ATH394	Qtz,Bb>Pl,Kfs>>Kln
Vicunita alteration	ASM348	Qtz,Ser>>>Gp,Rt
Vicunita alteration	ASM349B	Qtz>Pl,Kfs,Ser>>Gp
Vicunita alteration	ASM350	Qtz>Pl,Ser>Kln>Kfs
Vicunita alteration	ASM351A	Qtz>Pl,Kfs,Bb>>Kln
Vicunita alteration	ASM352	Qtz>Pl,Kfs,Ser>>C/S
Pastran		
Pastran (W)	ASM360	Qtz>Chl>Pl,Ser>
Granite		
Granite	SM06	Qz,Kao>Kf,Ser>>Ana
camp location		
camp location	ATH250	Qz,Bar>>>
Quebrada de Conc		
Conconta	ASM343	Qtz,Pl>>Kfs>Kln,S/S
Quebrada de Conconta	ATH379	Qtz,Pl>>Kfs>Ser,Kln
Quebrada de Conconta	ATH380	Qtz,Kfs,Kln>>Ser>
Quebrada de Potor		
Pancha	ASM344	Qtz,Pl>Kfs>>Ser,Kln
Pancha	ASM345	Qtz,Ser>>>
Southwest of Marc		
4651m alteration zone	ATH426	Qtz>Pl,Kfs>>Cal
4652m alteration zone	ATH427	Qtz>Ab>S/S>
4654m alteration zone	ATH429	Qtz>Kfs>S/S>Cal
Silicification beside Margarita	AKY359a	Qtz>Pl,Kfs>>Ser

Fluid Inclusion Thermometrics

regional area / locality	sample	Th avg dc	Th max dc	Th min dc	Th dev	NaCl avg wt%	boiling	note
El Potro								
El Potro	ASM212	304.4	334	264	19.8	25.59	0	bimodal NaCl 33.8%/16.2%
El Potro	ASM214	305.1	336	267	16.3	50.96	1	
El Potro	ASM216	256.9	274	232	13.3	2.13	1	
El Potro	ATH231	262.2	289	241	14.5	2.33	0	
El Potro	ATH238	256.5	288	225	17.3	47.84	1	
Rio Blanco								
Rio Blanco	ASM219	244.3	272	214	13.6	1.85	1	
Rio Blanco	ASM220	255.7	282	230	14.1	3.27	0	
La Ollita								
La Ollita	ATH208	191.7	214	161	14.6	7.26	0	bimodal NaCl 4.11%/10.03%
La Ollita	ATH212	234.5	268	198	20.5	14.02	0	
Pastos Largos								
Pastos Largos	ATH420	174.3	204	140	19.1	5.56	0	
Pastos Largos	ATH424	183.8	195	171	8.2	11.41	1	

Fluid Inclusion Thermometrics

regional area / locality	sample	Th avg dc	Th max dc	Th min dc	Th dev	NaCl avg wt%	boiling	note
Ranchillos								
Ranchillos	AXY352A	245	281	215	17.6	3.74	0	
Ranchillos	AXY353b	231.4	261	207	15.8	1.71	0	
Laguna de las Huaycas								
Laguna de las Huaycas	AXY361	147.8	162	135	9	2.65	0	
La Flecha								
La Flecha	ATH439	211.5	241	181	14.7	7.21	0	
Borde Atravesado								
South of Bord Atravesado	ATH449	372.3	401	351	13.4	15.08	1	
Margarita								
Margarita	AXY358	164.5	194	141	14.8	4.17	0	
Los Mogotes								
Los Mogotes	ASM230	347.3	369	315	14.2	20.11	1	
Los Mogotes	ATH269	336.5	362	306	17.5	7.14	1	
Guachi								
Guachi	KY34	206.9	237	182	14.4	29.9	0	liquid phase
Guachi	TH50	303.1	317	284	9.2	2.7	0	liquid phase

Fluid Inclusion Thermometrics

regional area / locality	sample	Th avg dc	Th max dc	Th min dc	Th dev	NaCl avg wt%	boiling note
Despoblados							
Despoblados	AKY400	235.1	261	198	15	3.18	0
Despoblados	AKY402b	252.2	287	221	18.9	1.48	0
Veladero Sur							
Veladero Sur	AKY390	242.3	284	211	22	4.38	0
Veladero Sur	ATH484	197.7	233	170	19.1	4.18	0
Rio Frio							
Rio Frio	AKY398	251.3	277	221	16.6	1.94	0
El Salado							
Mina El Salado	ATH385	256.5	298	223	18.4	3.39	0
Las Openas							
Las Openas	AKY336	260.4	271	252	5.2	0	1
Las Openas	ATH398	319	351	294	15	3.05	0
Las Openas West	AKY337	250.3	269	239	7.1	0.25	1

Fluid Inclusion Thermometrics

regional area / locality	sample	Th avg dc	Th max dc	Th min dc	Th dev	NaCl avg wt%	boiling note
Carmen Norte							
Carmen Norte	AKY380b	168.1	191	145	15	0.81	0
Carmen Norte	AKY382a	251.5	282	225	19	3.78	0
Carmen Norte	ATH467	177.5	198	162	10.4	-1	0
Quebrada de Chita							
Chita (Au old adit Au)	ASM342	228.4	253	208	14.2	0.97	0
near Chita	ATH378	235.5	256	197	15.8	1.18	0
Tocota District							
Dos Amigos	ATH371	213	243	175	20	8.43	0
Mina Colocolo, Tocota	ATH361	189.6	227	157	17.3	7.48	0
Mina Kirmer, Tocota	ATH365	185.4	212	165	13.9	10.76	0
Castano Viejo District							
Castano Viejo	ATH310	186.2	197	161	7.8	0.56	1
Mina Animas	ATH314	261.9	291	239	15.4	11.09	0

Fluid Inclusion Thermometrics

regional area / locality	sample	Th avg dc	Th max dc	Th min dc	Th dev	NaCl avg wt%	boiling	note
Cuatro Amigos								
Cuatro Amigos	AKY308a	209.9	241	175	19.3	1.31	0	Qtz
Cuatro amigos	AKY308b	204.3	231	173	16.5	3.48	0	Sp
Cuatro Amigos	ATH316	177.6	212	153	17.9	9.92	0	
Avestruces								
Avestruces	ATH335	184.7	221	164	14.6	0.29	0	
Avestruces-north	AKY312b	160.6	181	137	13.5	-1	0	
near Avestruces	ATH340	153.1	186	131	13.4	0.16	0	
Manrique								
Manrique	AKY324b	178.1	203	142	16.8	0.04	0	
Manrique	AKY325	147.1	164	133	9.6	0.05	0	
Manrique	ASM329B	200.4	232	172	17.7	0.29	0	
Manrique	ATH349	171.2	192	144	15.7	0.27	0	
Manrique	ATH350	178.2	198	162	11.3	0.31	0	

Fluid Inclusion Thermometrics

regional area / locality	sample	Th avg dc	Th max dc	Th min dc	Th dev	NaCl avg wt%	boiling	note
Paramillos Sur								
Paramillos Sur	SM61	341.3	372	294	19.7	36.1	1	boiling, gas phase
Paramillos Sur	SM62	356.2	372	323	12.5	38.9	1	boiling
Paramillos Sur	TH112	337.7	367	308	19.4	32.5	0	many secondary inclusion
La Negrita								
La Negrita	TH108	160	188	138	14.6	4.3	0	liquid phase, necking down
San Benicio								
San Benicio	KY44	341.5	369	304	19.6	31.8	1	boiling
San Benicio	SB14	346.4	365	323	12.7	28.4	0	gas phase
San Benicio	TH73	333.4	368	303	18.6	40.4	0	gas phase, many secondary inclusion
Pampa Fria								
Pampa Fria	SM54	121.3	133	106	9.5	0.6	0	liquid phase, many secondary inclusion
Creston Amarillo								
Creston Amarillo	KY60	177.9	206	146	16	2.8	0	liquid phase

Fluid Inclusion Thermometrics

Regional Area / Locality	sample	Th avg dC	Th max dC	Th min dC	Th dev	NaCl avg wt% boiling	Note
Cerro Veneruela							
Cerro Veneruela	ATH331	150.3	173	126	11.2	0.02	0
Veneruela	AXY303	168.1	194	147	13.9	4.15	0
Veneruela	ASM306A	236.8	263	213	12.8	14.54	0
Vicunita (El Salado)							
Vicunita (El Salado)	ATH393	441.2	481	401	22.7	62.4	0
Vicunita (El Salado)	ATH385	600	600	600	74	74	0 Th>600dC, NaCl>%wt%
Southwest of Margarita							
Silicification beside Margarita	AXY359b	162.1	194	141	15	1.93	0

K-Ar dating result

Survey Area /locality	sample	rock type	remark	age (Ma)	error (Ma)
El Potro					
El Potro	ATH232	granite	K-fel, sericite	73.7	1.2
El Potro	ATH244	granite	prim. biot	88.9	1.4
Los Mogotes					
Los Mogotes	ATH270	alunite	sericite	17.1	0.4
Los Mogotes	ATH278	dacite	hb,biot	15.3	0.2
Abundancia					
Abundancia	TH54	granodiorite porphyry	Bt	6.9	0.1
El Fierro Bajo					
El Fierro Bajo	TH37	granite porphyry		245	3.5
El Fierro Bajo	TH38	granite		188	3.5
Cerro Amarillo					
Cerro Amarillo	ATH265	dacitic pyroclastics	alunite	23.1	0.6
El Retamal					
El Retamal	TH22	dyke		374.5	6.2
Leoncito					
Leoncito	TH91	monzodiorite		14.8	0.4
Leoncito	TH94	monzodiorite?		13.1	0.3
San Jorge					
San Jorge	TH79	porphyry	Bt	185	4.2
Yalguaraz					
Yalguaraz	TH81	porphyry	Bt	269	4.2
Yalguaraz	TH84	porphyry	Bt	257	3.7
Paramillos Norte					
Paramillos Norte	TH95	monzodiorite		18.3	0.4
La Negrita					
La Negrita	TH67	porphyry		20.6	0.4
San Benicio					
San Benicio	SB06		E7	16.1	0.3
San Benicio	SB22		E23,Bt-Hbl	12.5	0.3
Granite					
Granite	TH06	Hbl-Bt-ganite		319	5.3

K-Ar dating result

Survey Area /locality	sample	rock type	remark	age (Ma)	error (Ma)
El Potro					
El Potro	ATH232	granite	D:Kfs, Ser	73.7	1.2
El Potro	ATH244	granite	D:prim.Bt	88.9	1.4
Criollita					
Criollita (2nd site)	ASM366	granite	D:Bt	296.0	15.0
Ranchillos					
Ranchillos	ASM372	altered granite	Ser dominant	246.0	12.0
Ranchillos	ATH416	monzonite?	D:whole rock	217.0	11.0
Ranchillos	ATH418	granodiorite?	D:Bt	235.0	12.0
La Flecha					
La Flecha	ATH438	pyroclastic rock	D:Alu	19.7	1.4
Los Mogotes					
Los Mogotes	ATH270	alunite	D:Ser	17.1	0.4
Los Mogotes	ATH278	dacite	D:Hbl, Bt	15.3	0.2
Cordon de la Inca					
Easternmost of Cordon de la Inca	ATH451	silicified rock	D:Alu	20.6	2.0
Abundancia					
Abundancia	TH54	granodiorite porphyry	D:Bt	6.9	0.1
El Fierro Bajo					
El Fierro Bajo	TH37	granite porphyry		245.0	3.5
El Fierro Bajo	TH38	granite		188.0	3.5
Cerro Amarillo					
Cerro Amarillo	ATH265	dacitic pyroclastics	D:Alu	23.1	0.6
Rio Frio					
Rio Frio	ASM417	altered dacite	Ser dominant	13.5	0.8
Zancarron					
Zancarron	ATH492	alunite	D:Alu, dS, sO	9.6	1.2
Las Openas					
Las Openas	ASM355	altered granite	D:Wihte Mica	172.0	9.0
Carmen Norte					
Carmen Norte	ATH460	alunite vein	D:Alu, dS,dO	14.3	1.2

K-Ar dating result

Survey Area /locality	sample	rock type	remark	age (Ma)	error (Ma)
Quebrada de Chita					
Chita	ATH377	quartz+sericite+Py altered rock	D:Ser	7.6	0.5
Tocota District					
Mina Colocolo, Tocota	ATH362	sandstone		243.0	12.0
El Retamal					
El Retamal	TH22	dyke		374.5	6.2
Castano Viejo District					
Mina Animas	ATH315	intrusive rock		237.0	12.0
Avestruces					
Avestruces	ATH343	silicified rock	D:Ser	225.0	11.0
Avestruces	ATH344	andesite	D:Hbl	253.0	13.0
Aveztruces	ASM321	silicified argillized rock	Ser dominant	202.0	10.0
near Avestruces	ATH345	monzonite		221.0	11.0
Manrique					
Manrique	ATH354	dacite		263.0	13.0
Leoncito					
Leoncito	TH91	monzodiorite		14.8	0.4
Leoncito	TH94	monzodiorite?		13.1	0.3
San Jorge					
San Jorge	TH79	porphyry	D:Bt	185.0	4.2
Yalguaraz					
Yalguaraz	TH81	porphyry	D:Bt	269.0	4.2
Yalguaraz	TH84	porphyry	D:Bt	257.0	3.7
Paramillos Norte					
Paramillos Norte	TH95	monzodiorite		18.3	0.4
La Negrita					
La Negrita	TH67	porphyry		20.6	0.4
San Benicio					
San Benicio	SB06		E7	16.1	0.3
San Benicio	SB22		E23,D:Bt-Hbl	12.5	0.3

K-Ar dating result

Survey Area /locality	sample	rock type	remark	age (Ma)	error (Ma)
Cerro Venezuera					
Corro Venezuela	ATH302	hydrothermal brecoia	D:Ser	209.0	10.0
Cerro Venezuela	ATH305	highy silicified rock	D:Alu	248.0	12.0
Potrorillos					
Portrorillos	ATH322	silicified white clay altered rock	D:Ser	179.0	9.0
Vicunita (El Salado)					
Vicunita (El Salado)	ATH388	Bt Fd porphyry	D:Bt	13.5	0.7
Vicunita (El Salado)	ATH394	K-silicate alt. Qtz porphyry	D:hydrothermal Bt	13.2	0.7
Vicunita alteration	ASM348	altered dacite	Ser dominant	13.3	0.7
Granite					
Granite	TH06	Hbl-Bt-granite		319.0	5.3
Southwest of Margarita					
4652m alteration zone	ATH427	porphyry	D:Ser	215.0	11.0

Appendix 3

Contents of CD-ROM attached to the final report

Contents

1. Copyright

2. Data stored on CD-ROM

Contents	File format	Application software
GIS data set	Binary/text	ArcView3.0a
Summary of survey result	Binary/text	Major HTML browsers
Laboratory test results, etc	Binary	MS-EXCEL

3. How to use and notes

(a) GIS data set

Related documents are stored in the gis_data folder of the root.
A project file of ArcView is the one with apr extensions and is stored immediately below the gis_data folder.

(b) HTML document

The related documents are stored in the html_doc folder of the root. The root (home page) of each link is index.htm.
It is designed for a frame element readable HTML browser. If you want to retrieve it with a frame element unreadable browser, use result_f2.htm under html_doc. For the survey results of each area, use result.htm in each folder.
The home page has a built-in search form. This is realized by a cgi script. The script is stored in the cig_bin folder of the root. The contents need to be retrieve from a WWW server with a function properly added or set so that the search function works properly. Specialized knowledge is required to make a setting.
The contents will be made available on the web site (http://www.mmaj.go.jp/) of the Metal Mining Agency of Japan.

4. Composition of directory

```
¥┬gis_data              Arc View related document storing folder
  │ ├
  │ └
  │
  ├html_doc             HTML document storing folder
  │ ├ *                 Survey result of the * area
  │ │ ├ result_f.htm    root of the documents
  │ │ ・・・
  │ ├images             image files
  │ ├index.htm          Home
  │ ├・・・
  │ └・・・
  ├apps                 Application software, etc.
  ├cgi_bin              cgi script, etc.
```

```
├readme_j.txt        readme file in Japanese
├readme_e.txt        readme file in English
・・・
```

5. Address and telephone number where you can get further information

For the contents of this CD-ROM, contact the following.
Yoshitaka Hosoi
Geological Survey Department
Japan Mining Engineering Center for International Cooperation
(E-mail: hosoi@jmec.or.jp)
Address: 105-0001 14th floor of the 17th Mori-Bldg., 1-26-5, Toranomon, Minato-ku, Tokyo, Japan
Telephone: 03-3503-5222
FAX: 03-3503-5221

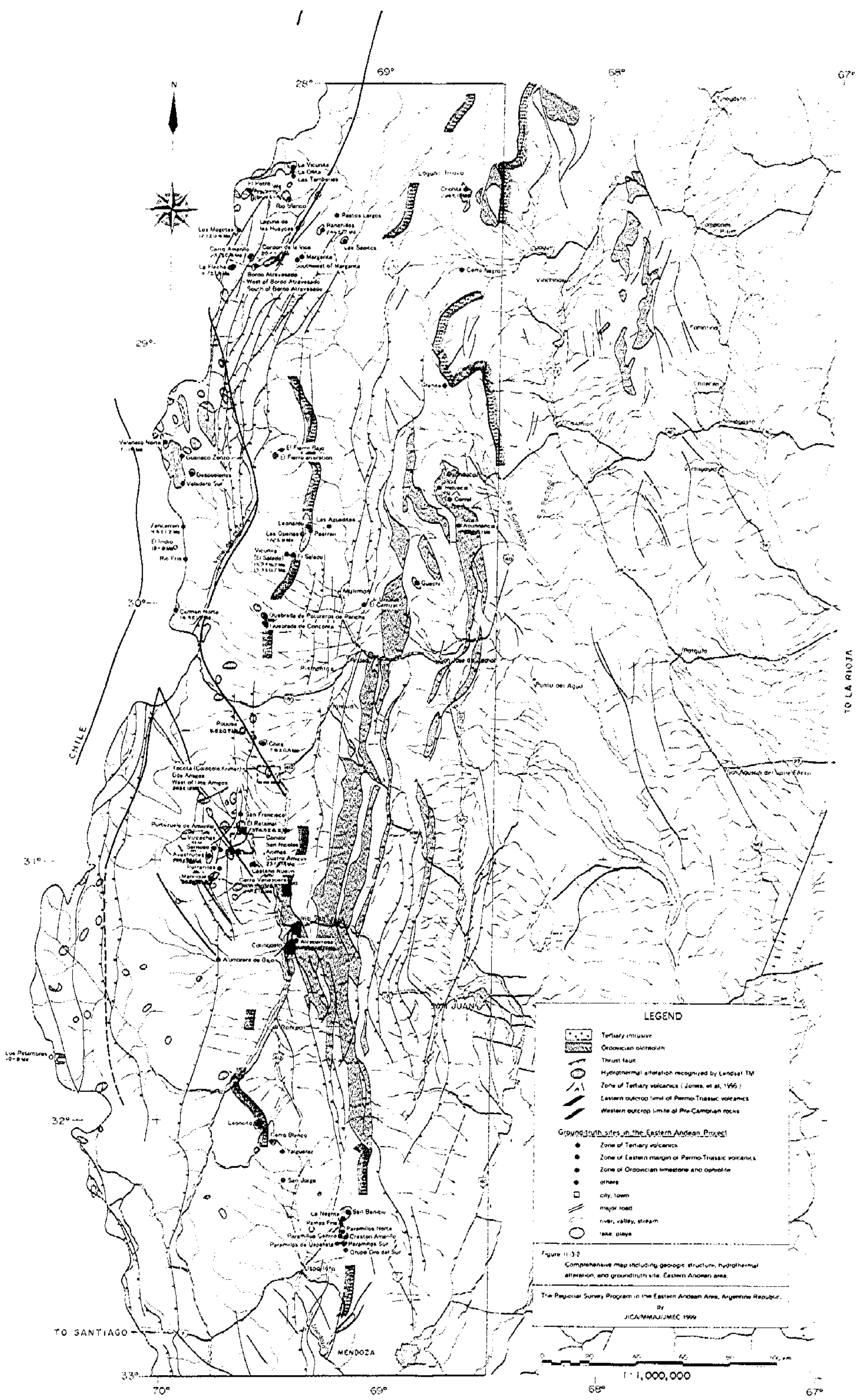


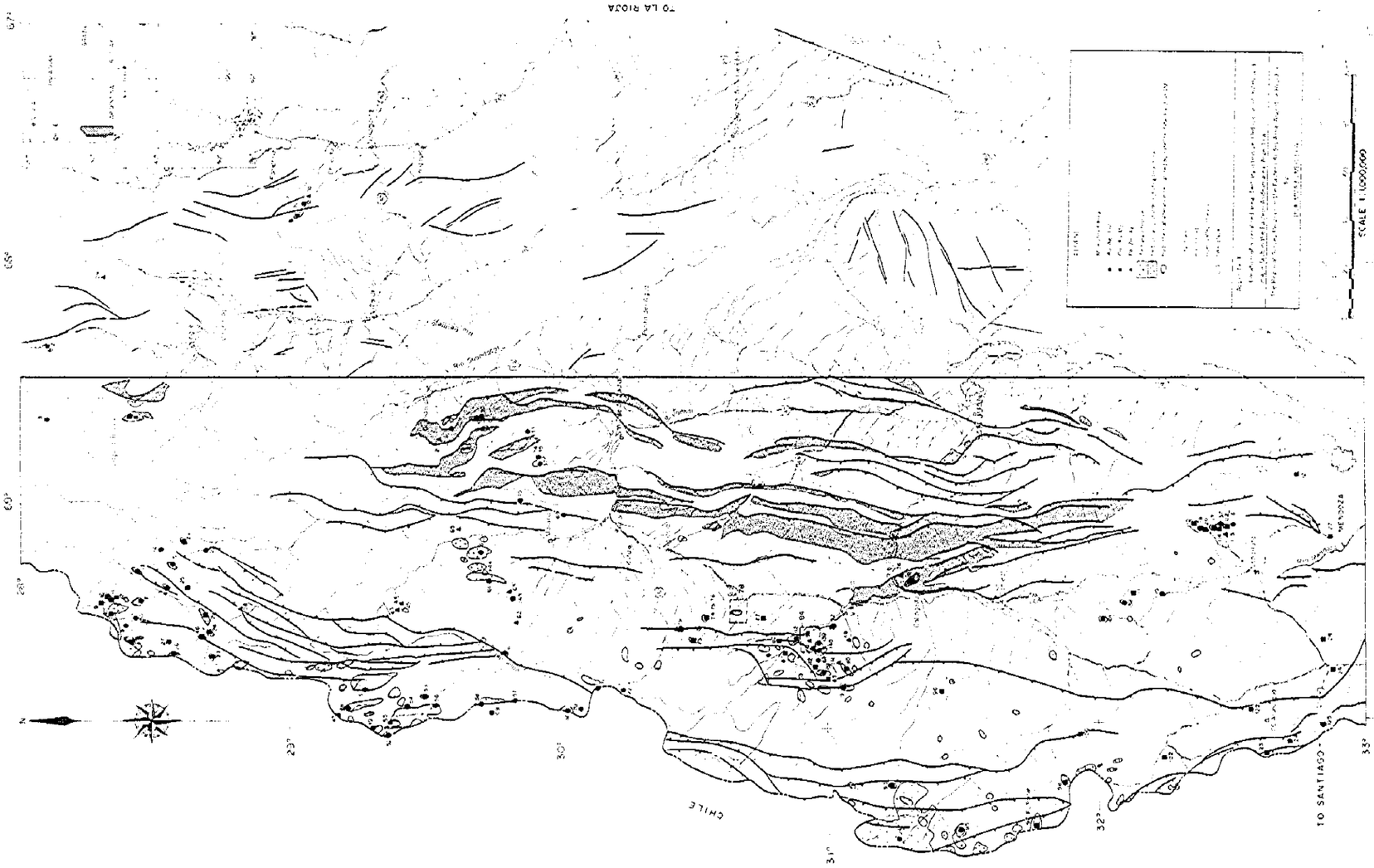
Figure II-3-2

Comprehensive map including geologic structure, hydrothermal alteration, and groundtruth site, Eastern Andean area.

The Regional Survey Program in the Eastern Andean Area, Argentine Republic,

by

JICA/MMAJ/JMEC 1999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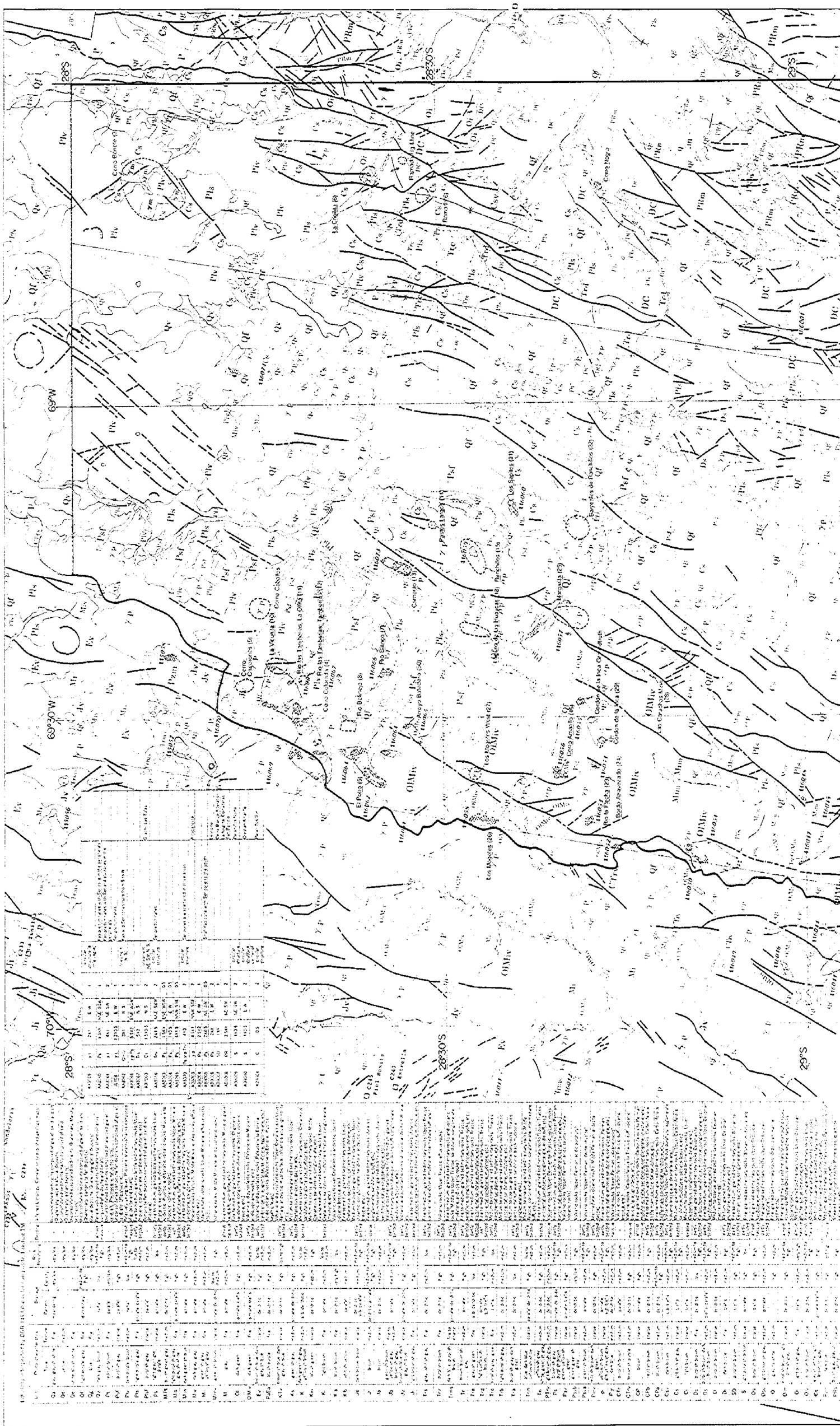
CHILE
TO SANTIAGO
SCALE 1:1000,000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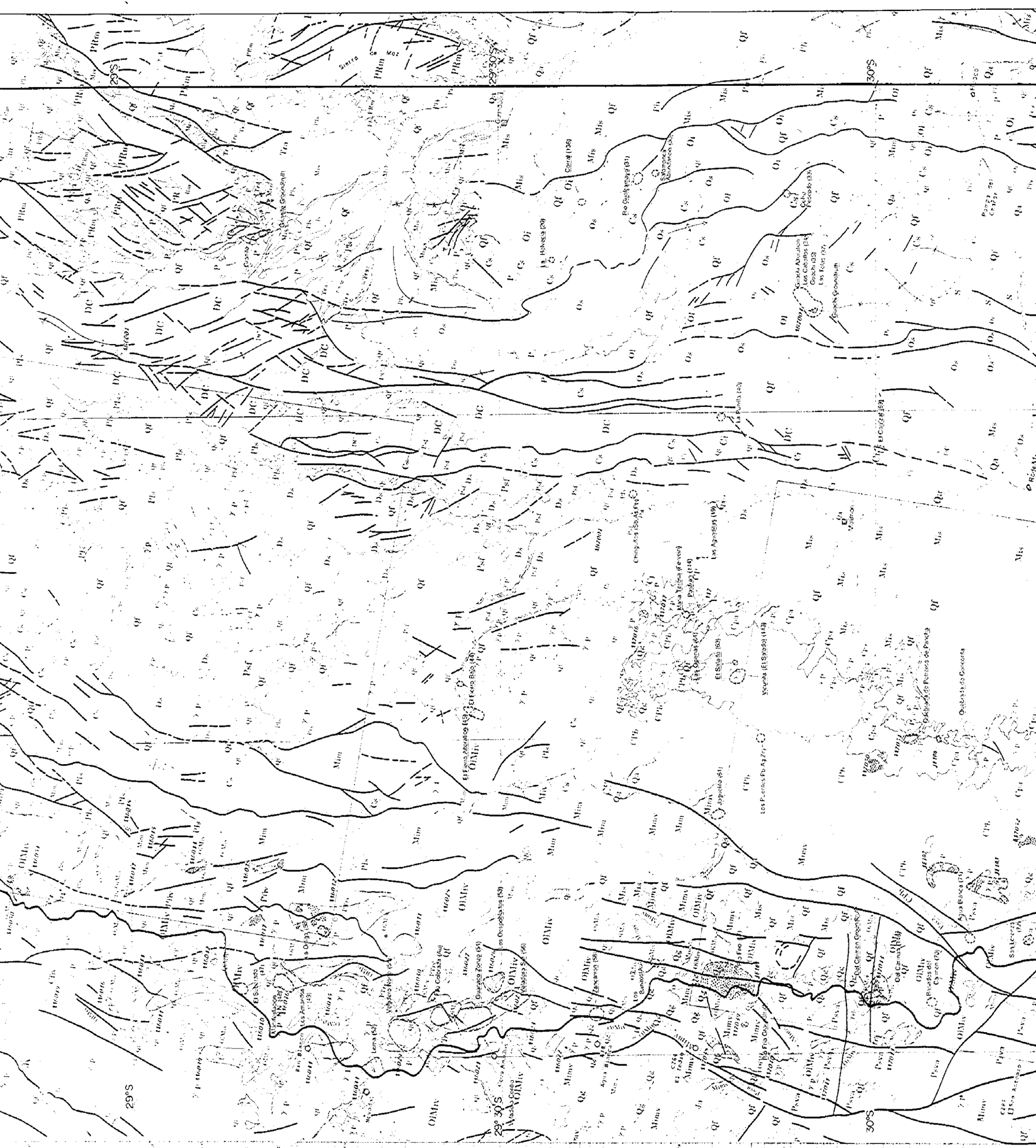
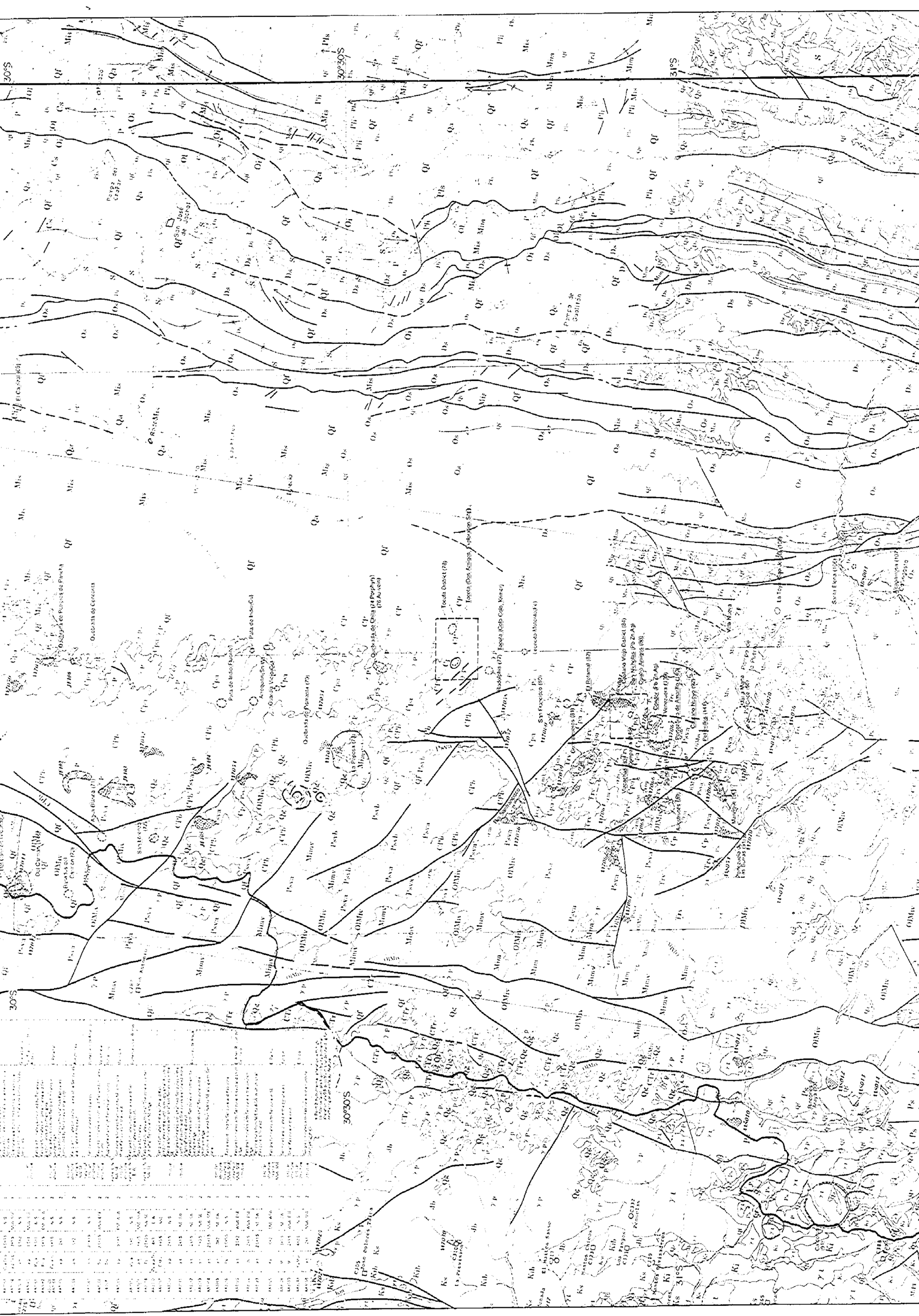
28°30'S
29°S






32°S
32°30'S
San Juan
CHILE
ARGENTINA

Legend

Geology and Geologic Structure

Geography

Hydrothermal Alteration

SCALE 1: 250,000