scores are distributed in the area of the Barinad creek. Small scores are located in the Kadlakogod creek and in the upper reaches of the Tabyonan creek.

Second principal component: Zn and S have large factor loading. These element show opposite behavior. High scores are distributed in the gabbro area of the Barinad creek and in the Kadlakogod creek. There are spotted anomalies in the tributaries of the Taganopol river.

Third principal component: Au and As have large factor loading. Au and As show opposite behavior. This component show the gold mineralization. High scores are in the gabbro area at the Barinad creek and in the Kadlakogod creek, Spotted high scores are distributed in the upper reaches of the Taganopol river.

Forth principal component: Pb has large factor loadings. Rather high scores are distributed in the Kadlakogod creek.

Fifth principal component: As and Au have large factor loading. This component show Au and As mineralization. High scores are distributed in the gabbro area, and in the upper reaches of the Taganopol river. In the Kadlakogod creek, high scores are not conspicuous.

In this survey no promising Cu and Au anomalies were found in the gabbro area of the Barinad creek and in Kadlakogod Area.

Table 44

Eigenvalue

P.C.	E.V	Con.	Cum.Con.
Z-01	**2.0889**	**26.1109**	**26.1109**
Z-02	**1.4381**	**17.9767**	**44.0876**
Z-03	**1.0974**	**13.7174**	**57.8050**
Z-04	**1.0377**	**12.9718**	**70.7769**
Z-05	**0.9065**	**11.3310**	**82.1078**
Z-06	0.6211	7.7639	89.8718
Z-07	0.5024	6.2803	96.1521
Z-08	0.3078	3.8479	100.0000

Factor Loading

	Z-01	Z-02	Z-03	Z-04	Z-05
Fe	**0.8056**	-0.1976	0.0800	-0.2221	-0.0063
Cu	**0.7842**	0.3311	-0.1012	-0.1177	0.1658
Sb	**0.6374**	-0.2511	-0.2866	0.2308	-0.2776
Zn	0.3627	**0.7449**	-0.3040	-0.0105	-0.1940
S	0.3554	**-0.7173**	0.0123	-0.3042	0.1945
Au	0.2759	0.3278	**0.6051**	0.1302	**0.5656**
As	-0.2048	0.0002	**-0.7320**	-0.0707	**0.6257**
Pb	0.2067	-0.2227	-0.0645	**0.8982**	0.1224

2-3-5 Discussion

The results of soil geochemical survey has revealed the following areas in their order of importance (1) Carorongan Mineral Occurrence, (2) Taganopol Mineral Occurrence, (3) Barinad Area, (4) Tagbak Area.

In the Carorongan Mineral Occurrence, maximum Au content is 1,870ppb, and mean is 155.9ppb. This figure is large as compared to Clarke number. Other elements except Sb, Hg is below 3 times in average contents. Accordingly main mineralization is gold related.

Monovariant and multivariant analytical data show that gold mineralization is concentrated near the boundary between the green-schist of the Catanduanes Formation and Payo Formation. The results of

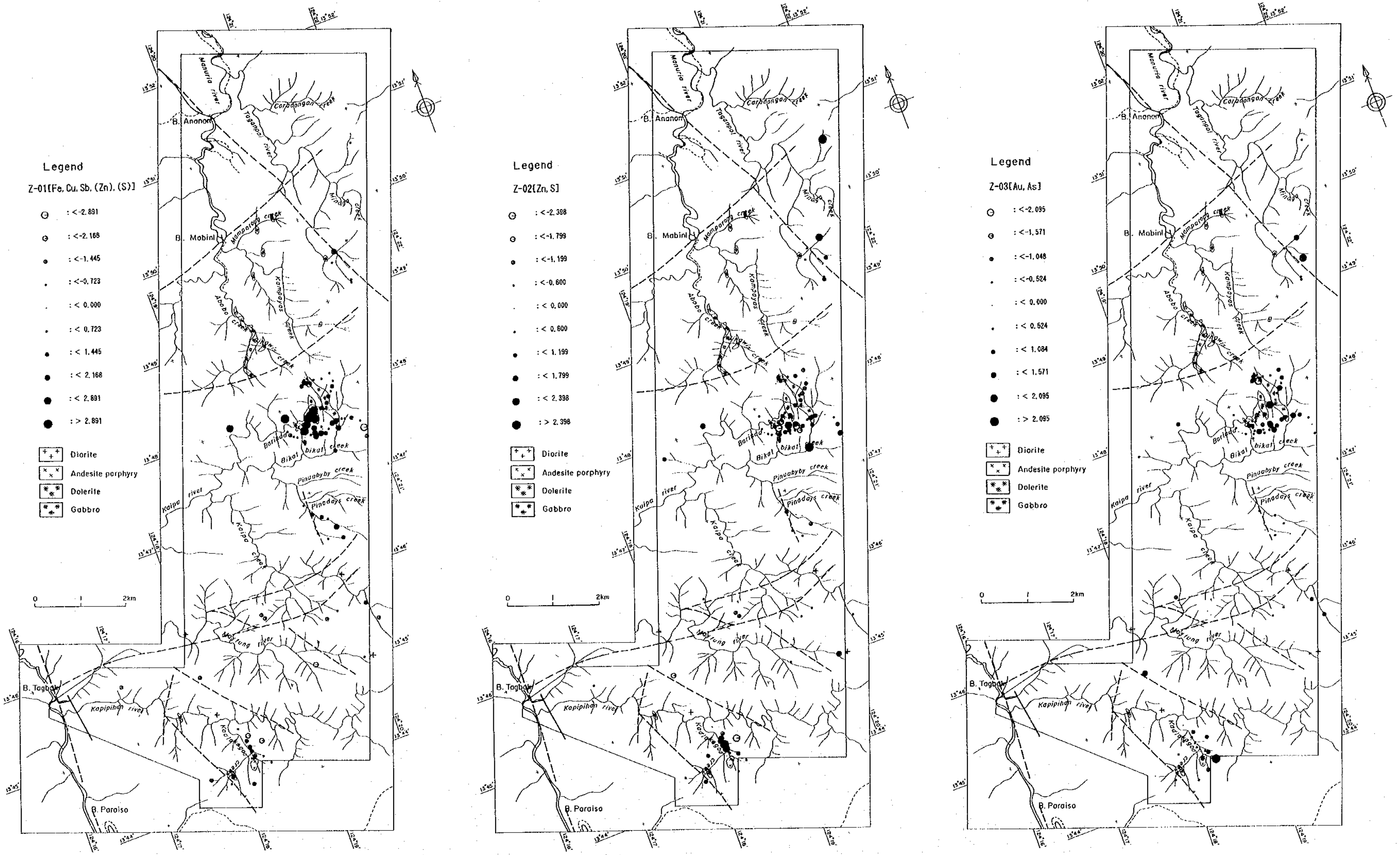
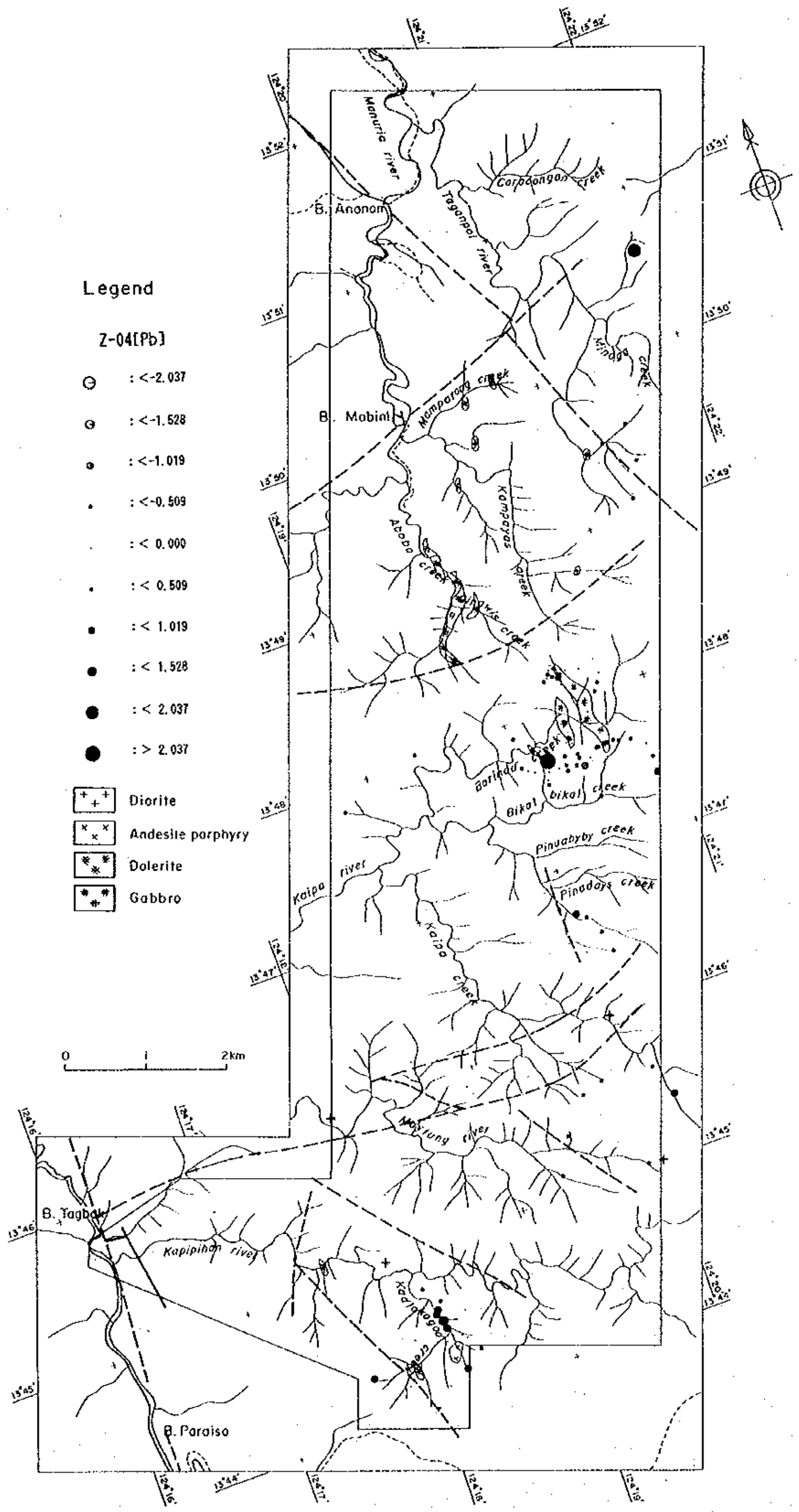


Fig. 50 Distribution of PCA Scores (Soil, Barinad Area) (1)



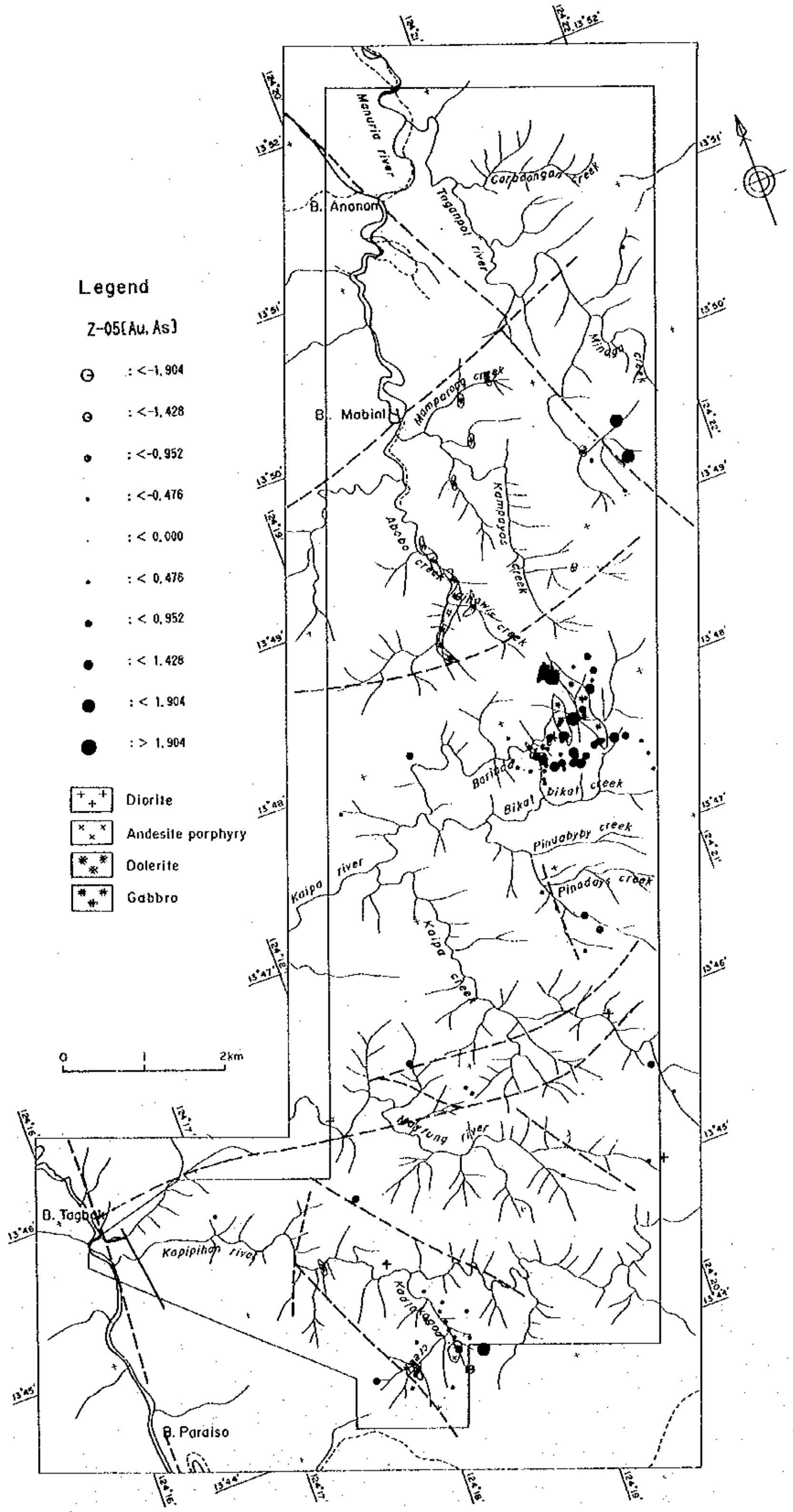


Fig. 50 Distribution of PCA Scores (Soil, Barinad Area) (2)

geochemical survey is concordant with that of the geological survey. Mineralization of Au in the green-schist unit of the Catanduanes Formation can be extended eastward where Payo Formation covers the green-schist unit.

In Taganopol Mineral Occurrence, maximum gold content is 504ppb, and average is 50.9ppb and they shown high value compared with Clarke number. Other elements except Sb, mean values are less than 3 times of Clarke number. Accordingly, main mineralization in this occurrence is gold related. In this occurrence, geochemical anomaly cannot be extracted clearly due to mixing two geological units; Catanduanes Formation and Payo Formation. This may be attributed to mixing and disintegration of rocks coming from two Formations which were distributed widely in area and made the original anomaly unclear.

In the Tagbak Area, Au content is very low compared with the former two occurrences. Cu, Pb, Zn content has is 3 times at most compared with Clarke number. Although there are network of quartz veinlets on the surface, possibility of disseminated copper deposit at shallow depth is not likely. Even if there is intrusion below this network it would be located at deeper portions.

In the Barinad Area, geological survey did not indicate workeble copper deposit near the surface. But in gabbro area first principal component shows the factor of mineralization of Fe, Cu, Sb, (Zn), (S). Their mineralization would bring small amount of copper, and this would be the source of native copper as a secondary mineral.

PART Ⅲ CONCLUSION AND RECOMMENDATION

PART III CONCLUSIONS and RECOMMENDATIONS

Chapter 1 Conclusions

(1) The geology of the survey area is composed of Cretaceous Catanduanes Formation (graywacke, green-schist and andesitic lavas), Oligocene Payo Formation (sandstone, limestone and volcanic rocks), Cretaceous Intrusives (gabbro and dolerite), Oligocene Batalay Intrusives (diorite, andesite porphyry, aplite) and Alluvium.

The Batalay Intrusives occur as small intrusive bodies in the survey area.

(2) The geological structure is characterized by northwest-southeast trending faults and folding and east-west trending faults. In the northeastern part of the survey area, the Catanduanes Formation underwent dynamo-metamorphism by faults and the graywacke has been metamorphosed into green-schist during Eocene time.

(3) Except for the segregation quartz veins, the important mineralization and pyritization are also associated with the Batalay Intrusives. The Catanduanes Formation underwent metamorphism in parts, alteration and mineralization, but the overlying Payo Formation underwent none of them.

(4) The mineralization is divided into the following groups; (i) quartz vein (Au), (ii) silicified zone, (iii) placer gold, (iv) native copper, (v) others. Among them, the most important types are gold bearing quartz vein and placer gold. There are two kinds of quartz vein: one is the segregation veins and the other is hydrothermal ones which are associated with gold mineralization. Many floats of quartz veins are distributed in the Taganopol river basin but both types are not distinguishable in floats. Silicified zone is noted at about 20 localities. All of them underwent medium to weak silicification and weak pyritization. Some of them are possibly showing the surface indication of the deep-seated intrusion and / or related mineralization.

Placer gold are noted in the eastern part of Ananon and in the Kadlakogod creek. Gold grain is observed in Quaternary sediments through panning.

Native copper is found in the small cracks within gabbro of Cretaceous Intrusives and nearby graywacke in the Barinad creek. But the scale is small and the copper grade is very low. Others denote network quartz veinlets in weathered graywacke and so on.

As the results of geological and geochemical surveys disclose, the following areas were picked up as hopeful;

Carorongan Mineral Occurrence: it is located in the northernmost survey area and in the east part of Ananon. Geology is composed of green-schist of the Catanduanes Formation. Mineralization is in the form of gold-bearing silicified veins, clay veins and silicified vein. Width of the silicified vein is 0.7 to 2 meters. Maximum gold grade were 65.19g/t in the silicified vein (W=5m) and 10.33g/t in the clay vein (W=30cm). In silicified zone, it probably extends 100m by 200m in size.

As the result of geological and geochemical surveys disclose, the mineralized zone extends over the survey area of this year. This area has good indication in geochemical survey and promising primary gold deposit is expected to exist.

Taganopol Mineral Occurrence: it is situated in the southeastern part of Carorongan Mineral Occurrence. Quartz vein of 50cm wide are noted in green-schist of the Catanduanes Formation. This quartz vein accompanies pyrite and maximum gold grade was 10.33g/t (W=50cm). Soil and vegetation cover concealed the continuation of the vein. Geochemical anomaly area is rather small and continuity is rather poor, but bigger scale is expected underneath.

Ananon North Area: it is located in the east of Ananon. Geology is composed of green-schist and Quaternary sediments. There are many of quartz veins along the Taganopol river. There are about 20 pits for placer gold along the river. Maximum 4mm of gold grain was recognized in the pit through panning. Gold content is high in stream sediments along this river and potential of placer gold is expected to be large.

Kadlakogod Area: it is located in the south of the survey area. There is silicified and argillized zone in the Kadlakogod creek caused by andesite porphyry of Batalay Intrusives. There are many pits for placer gold in the lower reaches of the intrusive rock. Though panning of Quaternary sediments, maximum scale of 7mm gold nugget was recognized. The surrounding area has possibility to contain placer gold.

Kampayas Area: it is located in the southeast of Mabini. Small diorite body of Batalay Intrusives was found in the upper stream of the Kampayas river. The sedimentary rocks surrounding the diorite were subjected to silicification and argillization.

In this river area, gold content is high in stream sediments and primary gold deposit related with diorite is expected to exist.

The survey result of this year indicates that the high potential area for gold may quite possibly extend to the eastern area of this survey area. The results of the reconnaissance survey of last year had picked up the hopeful geochemical anomaly areas in the eastern extension area. Accordingly, other than the hopeful area above mentioned, we can expect high potential area in the eastern extension of this year's area to Sicmil.

Table 45 Valuation of Survey Area

Ore Type	Area Name	Rank	Description
Quartz Vein	**Ananon South Area**	B	Many segregation quartz veins associated with dynamo-metamorphism are distributed. Many floats of quartz veins are distributed along the Taganopol river and its tributaries.
	Carorongan Mineral Occurrence	A̲	Gold bearing silicified vein. Silicification, argillization and pyritization are noted. Dimension of mineralized area:100×200m, 65.2g/t Au max. Promising vein is expected. Potential is very large.
	Taganopol Mineral Occurrence	A	Gold bearing quartz vein with argillization. 10.3g/t Au max. Vegetation and soil conceal extention of vein. Potential is large.
Silicified Zone	**Pinadaysan Area**	C	Silicified zone with pyrite. Aplite dike occurs along faults and surrounding rock underwent alteration.
	Maytung Area	B	Silicified zone are distributed along E-W striking faults. No mineralization-related intrusives is found on the surface.
	Kaipa Area	B	Silicified zone with pyrite. Barren quartz vein with 40cm wide, 16m long occurs in graywacke.
Placer Gold	**Ananon North Area**	A	About 20 pits were dug before World War Ⅱ.Gold was observed in samples from pits. Potential of placer gold is large.
	Kadlakogod Area	A	Placer gold had been recovered before World War Ⅱ. Now still producing gold by panning. Diorite occurs. No primary gold veins are confirmed. Potential of placer gold is large.
Native Copper	**Barinad Area**	B	Native coper is observed in gabbro and in its vicinity. In addition Cc,Bo,Cp are observed under microscope. Soil geochemical survey resulted in small anomalies.
Others	**Kampayas Area**	A̲	High anomalies of Au in stream sediments are noted.Small diorite occurs in graywacke with silicification and pyritization. No primary vein is found. Potential is very large.
	Tagbak Area	C	Quartz network zone are scattered along mountain trail. No remarkable anomalies in soil geochemical survey.
	Pagsagnahan Area	D	Altered zone associated with andesite body is small and pyritization is not observed. Potential is very small.

Rank A̲ : (potential very large)
A : (potential large)
B : (potential medium)
C : (potential small)
D : (potential very small)

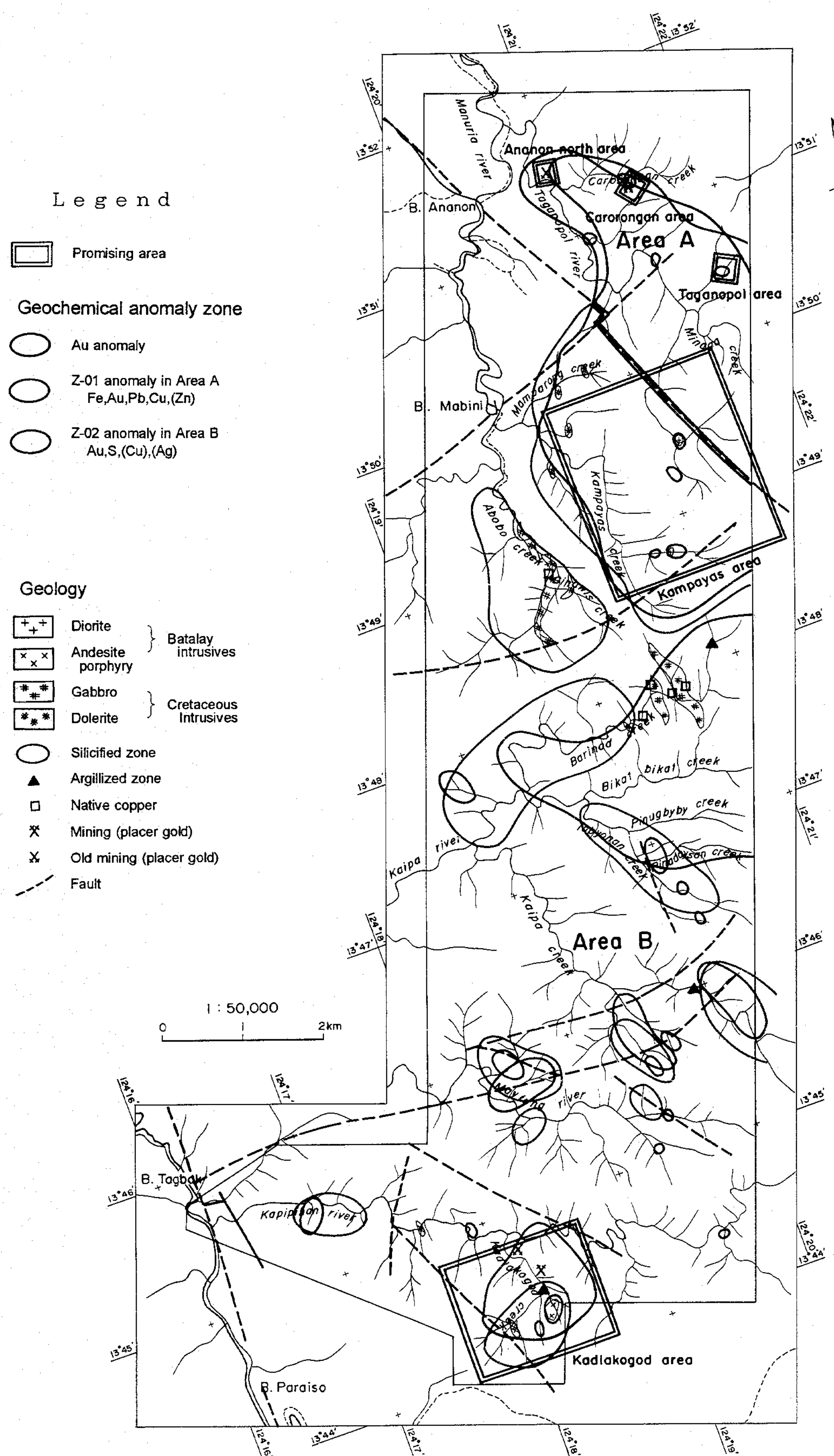


Fig. 51 Comprehensive Map of Survey Area

Chapter 2 Recommendations for the Third Phase Survey

(1) Carorongan Mineral Occurrence: Mineralized zone was found out to extend outside of the second phase target area. Accordingly, it is recommended that a detailed geological survey and soil geochemical survey be conducted in the northern and southern extension of last year's target area.

For the mineralized, silicified and clay veins, it is recommended that drilling be conducted to clarify the character and degree of mineralization.

(2) Taganopol Mineral Occurrence: it is recommended that test pitting and trenching be conducted to confirm the vein extension.

(3) Ananon North Area: it is recommend that test pitting be conducted to know the grade and scale of placer gold.

(4) Kadlakogod Area: it is recommend that test pitting be conducted to know the grade and scale of placer gold.

(5) Kampayas Area: it is recommended that detailed geological survey and soil geochemical surveys be carried out to delineate geological settings of mineralization and to find primary gold deposit. If the results of the survey is hopeful, drilling surveys will be recommended to clarify the mineralization.

In addition, it is proposed that detailed geological survey and stream sediments geochemical survey be extended in the eastern extension of high gold concentration area of the second phase survey.

FERERENCE

Angeles, Conrad M. and Teodoro, Levy G.(1980): Detailed Geological/ Geochemical Survey of Tilod and Guiamlong Area in Catanduanes., MGB.

Angeles, Conrad M. and Teodoro, Levy G.(1983): Statistical Analysis of the Geochemical Data in Kaglatawan, San Miguel, Catanduanes., MGB Region V.

Berkman, D.A.(1976): Field Geologists' Manual, The Australasian Institute of Mining and Metallurgy.

Capistrano, P.M.(1951a): Geological reconnaissance of Catanduanes, progressreport, Philippine Bureau of Mines.

Capistrano, P.M.(1951b): Preliminary Report on the A.A.R. Botelho Coal Claim, Hitoma, Caramoran, Catanduanes., MGB.

Capistrano, P.M.(1952): Notes on the Mineral Resources of Catanduanes Island., The Philippine Geologist, Vol.VI, No.4., The Geochemical Society of the Philippines, Manila.

Crispin, O.A., Weller, J. M. and Ibanez, C.B.(1955) : Ceology and coal resources of the Panganiban region, Catanduanes: Philippine Bureau of Mines Special ProjectSeries Publication No. 2.

Govett, G.J.S.(1983): Handbook of exploration geochemistry, Volume 2. Statistics and Data Analysis in Geochemical Prospecting. ELSEVIER SCIENTIFIC PUBLISHING COMPANY, p.437.

JICA and MMAJ(1994): Report on the cooperative mineral exploration in the Catanduanes area, the republic of the Philippines, phase I ; Japan International Cooperation Agency and Metal Mining Agency of Japan.

Kajitani, Yuji(1993): Environment of Mining Investment in the Philippines (part 2), Mineral Information Center, Metal Mining Agency of Japan.

LeBas, M. J., LeMaitre, R. W., Streckeisen A., Zanettin, B.(1986): A chemical classification of volcanic rocks based on the total alkali-silica diagram. J. Petrol., 27, 745-750.

Lepeltier, C.(1969): A simplified ststistical treatment of geochemical data by graphical representation. Econ. Geol., 64, 538-550.

Levinson, A.A.(1974): Introduction to Exploration Geochemistry.

Meek, W. B.(1938): Report on the Geological Survey and Investigation of copper prospect in Agban, Catanduanes: unpublished report, MGB.

Metal Mining Agency of Japan(1992): Geology and Mineral Resources of Southeasts Asia-Oceanian Islands, 1991 Report of Geology Analysis Committee, Mineral Information Center, Metal Mining Agency of Japan.

MGB(1982a): Geology and Mineral Resources of Catanduanes Province, Report of Investigation No.108, Map and Mineral Resources Compilation Team, MGB. Region V.

MGB(1982b): Geology and Mineral Resources of the Philippines, Vol.1.

MGB(1983a): Geological Map of Nagumbuaya Point Quadrangle, Sheet 3860 I., Bureauof Mines and Geo-Sciences, Ministry of Natural Resources.

MGB(1983b): Geological Map of Calolbon Quadrangle, Sheet 3860 IV., Bureau of Mines and Geo-Sciences, Ministry of Natural Resources.

MGB(1983c): Geological Map of Bagamanok Quadrangle, Sheet 3861 I., Bureau of Mines and Geo-Sciences, Ministry of Natural Resources.

MGB(1983d): Geological Map of Gigmoto Quadrangle, Sheet 3861 II., Bureau of Mines and Geo-Sciences, Ministry of Natural Resources.

MGB(1983e): Geological Map of Hitoma Quadrangle, Sheet 3861 III., Bureau of Mines and Geo-Sciences, Ministry of Natural Resources.

MGB(1983f): Geological Map of Caramoran Quadrangle, Sheet 3861 IV., Bureau of Mines and Geo-Sciences, Ministry of Natural Resources.

MGB(1983g): Geological Map of Pandan Quadrangle, Sheet 3862 III., Bureau of Mines and Geo-Sciences, Ministry of Natural Resources.

MGB(1985): Geological Map of Gibgos Quadrangle, Sheet 3761 I.,Bureau of Minesand Geo-Sciences, Ministry of Natural Resources.

Mitchell, A. H. G. and Balce, G. R.(1990): Geological features of some epithermal gold systems, philippines, Epirthermal gold mineralization of the circum-pacific,1, 241-296.

Nishido, H.,Itaya, T. and Ogata, K.(1984): K-Ar age determination method. Bull. Hiruzen Res. Inst., No.9, 19-38.

Santos, V. de los, et al.(1955): Geology and Coal Resources of the Hitoma- Manambrag Region, Catanduanes, Bureau of Mines, Manila.

Santos,V. de los, et al.(1959): Memorandum report on the phosphate and manganese deposits, Cataduanes: unpublished report, Bureau of Mines, Manila.

Sinclair, A.J.(1976): Application of probablity graphs in mineral exploration. Special Volume No. 4, The Association of Exploration Geochemists.

Steiger, R. and Jaeger, E.(1977): Subcommision on geochronology, Convention on the use of decay constants in geo-and cosmo-chronology, Earth Planet. Sci. Lett., 36, 359-362.

Teodoro, Levy G. et al.(1988): Preliminary Report on the Small-Scale Gold Mining Development Project in Catanduanes for the Period September 19 to December 18, 1988., MGB.

Teves, J.S. et al.(1949): Report on the investigation of rock phosphate and other mineral possibilities of Bohol: Philippine Geologist, Vol. III, No. 2.

Tompson, R. N., Morrison, M. A., Hendry, G.L., Parry, S.J.(1984): An assesment of the relative roles of a crust and mantle in magma series; an elemental aprpoach. Phil. Trans. Roy. Soc. London, A310, 549-590.

Torres, Mario A.(1978): Geologic Investigation of the Gold Property of Rajah Lahuy Mining Company at Gata, Caramoan, Camarines Sur, MGB.

United Nations(1992): The Philippines, A Prospectus for the International Mining Industry., United Nations Development Programme 1992, United Kingdom.

Wilson, M.(1989): Igneous petrogenesis-Aglobal tectonic approach. Unwim Hyman, London, 466p.

Wolfe J. A.(1981): Philippine geochronology. Jour. Soc. Geol. Phil., Vol. 35, 1-30.

APPENDICES

Appendix-1 Microscopic Observation of Polished Thin Sections (1)

No	Sample No.	Rock type	Location	Ore mineral																	Rock forming mineral																			Alteration grade	Remarks
																					Primary mineral									Secondary mineral											
				Nc	Cc	Bo	Cp	Cv	Sp	Py	Po	Dn	Ga	Mt	Mh	He	Mc	Lm	Ge	Ru	Q	Pl	Bi	Hb	Au	Di	Ol	Zr	Mon	Ch	Se	Ep	Ca	Fs	Pn	La	Pr	Tr	Ac		
1	ER-005	schist	Carorongan creek			○			△	◎										○	◎								△	○	○		○	◎						II	Silicification, argillization
2	ER-160	silicified schist	Carorongan creek		△		△		△	◎				△		△				○	◎									○	◎		○	○						II	Silicification, argillization
3	EOR-010	quartz vein	Carorongan deposit							○								△	△		◎												△							II	Qtz vein with Py
4	AR-074	altered sandstone	Tagancpol deposit				△					·		◎	○	·														○	△	○	○	◎						I	Volcaniclastic, hydroth. alt.
5	AR-076	quartz vein	Taganopol deposit				○	△	△	◎		△						○			◎										○			△						II	Qtz vein with abundant Py
6	FR-028	diorite	Taganopol river				○		△	△											◎			○		△				○	△	○	○	◎						II	Alteration
7	FR-035	coarse grain sandstone	Minaga creek				△		·	○							△				○								△	○	△		◎	◎						I	Strong alt.,Mon, Se, by X-ray
8	ER-012	dolerite	Mamparong creek				△		·	○			·								◎	◎		◎						○	△		○	◎			△			I	Strong alteration
9	DR-012	basaltic sandstone	Abobo creek	·	△	·															◎									◎		△		○						II	Silicification, Argillization
10	DR-016	dolerite	Abobo creek			△	△		△					○								◎								◎	○	△						◎		II	Strong alteration
11	DR-017	dolerite	Abobo creek		·	△	△							○								◎			◎					◎	○	△		○						II	Less groundmass
12	GR-016	dolerite	Abobo creek			○	○		·						◎							◎				◎				○	○									IV	Weak alteration
13	CR-015	dolerite	Abobo creek			·	△	·						○																◎	○	◎		◎						I	Strong alteration
14	FR-021	dolerite	Kampayas creek		△	△								△	○						△	◎				◎				○	○		△							III	Less groundmass
15	FR-052	diorite	Kampayas creek				△	·		△											△	◎		◎						○		○		◎						III	Porphyritic tex.
16	AR-029	gabbro	Barinad creek	○	△									△	○						○			△						◎	◎	△								I	Strong argillization
17	AR-036	andestic sandstone	Barinad creek		·					·								△			◎			△					△	○	△		○	◎						II	Mon. by X-ray,volcaniclastic
18	ER-118	acidic tuff	Barinad creek											◎		○					◎									○	△	○	○	◎		○				II	Intesive alt.,Se. by X-ray
19	ER-119	andestic sandstone	Barinad creek	○	△									△							◎									◎	◎	△	△	◎						I	Native copper, volcaniclastic
20	ER-120	gabbro	Barinad creek		·	△	·							◎	△	△						◎	○	△		◎		·		◎	◎			○						I	Alteration, Bo-Cc assemblage
21	ER-121	gabbro	Barinad creek			·				·				◎							△	◎								○	◎							◎		I	Ateration, Pl→Se
22	ER-122	basalt (lava)	Barinad creek	○	△	·								○		○					○	◎				○				○	△	△						△		III	Native copper, volcanic tex.

[Symbols] ◎ : abundant ○ : common △ : few · : rare
[Alteration] I : strong II : medium III : weak IV : fresh
Nc:Native copper Cc:Chalcocite Bo:Bornite Cp:Chalcopyrite Cv:Covellite Sp:Sphalerite Py:Pyrite Po:Pyrrhotite Dn:Digenite Ga:Galena Mt:Magnetite Mh:Maghemite He:Hematite Mc:Marcasite Lm:Limonite Ge:Goethite Ru:Rutile
Q :Quartz Pl:Plagioclase Bi:Bibiotte Hb:Hornblende Au:Augite Di:Diopside Ol:Olivine Zr:Zircon Mon:Montmorillonite Ch:Chlorite Se:Sericite Ep:Epidote Ca:Calcite Fs:Feldspar Pn:Prehnite La:Laumontite Pr:Pyrophyllite
Tr:Tremolite Ac:Actinolite

Appendix-1 Microscopic Observation of Polished Thin Sections (2)

No	Sample No.	Rock type	Location	Ore mineral																	Rock forming mineral: Primary mineral								Rock forming mineral: Secondary mineral											Alteration grade	Remarks
				Nc	Cc	Bo	Cp	Cv	Sp	Py	Po	Dn	Ga	Mt	Mh	He	Mc	Lm	Ge	Ru	Q	Pl	Bi	Hb	Au	Di	Ol	Zr	Mon	Ch	Se	Ep	Ca	Fs	Pn	La	Pr	Tr	Ac		
23	HR-028	gabbro	Barinad creek		△	△	△								◎							◎	○			◎		△		○	○								△	III	Holocrystalline
24	HR-031	dolerite	Barinad creek		△	△				△				○	○							◎	○	◎						○	○		△			△				III	Cc-Bo assemblage
25	HR-037	gabbro	Barinad creek	△	△	△								△		○						◎	△			◎				○	○		△							III	Weak alteration,native copper
26	AR-045	basaltic andesite	Tabyonan creek		·	△	○			△											◎									○	△	△	○	◎						II	Volcanic tex., hydroth. alt.
27	ER-111	aplite	Pinadaysan creek				△		△	△										△	◎	◎									○									IV	Phenocryst Qtz, dike(W=5m)
28	AR-099	andesite porphyry	Kadlakogod creek				△		·	△				○								◎		○						○			○							IV	Porphyritic tex.
29	AR-101	basaltic lapilli tuff	Kadlakogod creek				○		·	◎	·										△	◎		◎	△					○	△	○	◎							II	Including volcanic fragments
30	ER-142	dolerite	Kadlakogod creek				○							○								◎				◎				△	△		△							IV	Fresh
31	CR-025	aplite	Kadlakogod creek											△						○	◎									○	◎			◎						II	No sulfide, soft rock
32	CR-027	aplite	Kadlakogod creek											△						○	◎									○	◎		△	◎						I	Strong alt., No sulfide
33	FR-064	basalt (lava)	Kadlakogod creek				△		△	△											◎	◎		△		◎				◎	△	△	◎	○						I	Strong alt., Volcanic tex.
34	ER-022	dolerite	Kadlakogod creek		△			△		·				○		○					○	◎								○	○	△	○	○						III	Cc-Cv, Mt-He assemblage
35	ER-046	coarse grain sandstone	Maytung river		△	△	△			△											◎									◎	◎	○	△	◎						I	Strong alteration
36	ER-104	acidic tuff	Bikat bikat creek		·	△	△								○	○			○		○								△	○		△	△	◎	△					II	Mon by X-ray, abundant Fs
37	ER-105	quartz vein	Tabyonan creek				·							○	◎	△			△		◎			△						○		◎		◎						I	Strong alt., including Ep vein
38	ER-054	basaltic and. (lava)	Kaipa creek		·	·	·							○	○							◎			○					○	○									IV	Volcanic tex., Cp-Bo, Bo-Cc
39	ER-061	acidic tuff	Kaipa creek							·				○	○	○		○			○			△					△	△	△			○						III	Mon by X-ray, Mt→Mh→He
40	ER-097	basaltic and. (lava)	Kaipa creek			·	△		·												○	◎			○					◎	○	○								III	Volcanic tex.,Cp-Bo assemblage
41	CR-016	dolerite	Gihawis creek			△	△							○																○	○	◎		◎						I	Fine grained Cp-Bo
42	ER-171	basaltic sandstone	Gihawis creek		△	·	·	·		·						△					◎									◎		○	○	◎						I	Str.alt.,Cv-Cc,Cc-Bo assemblage
43	ER-145	dolerite	Kapipihan river				△			○				△							△	◎				◎				○	○	△							△	III	No Bo,Cc and Native copper
44	KR-013	andesite (dike)	pagsagnahan												○							◎		◎		◎	△			○			△							IV	Fresh, No sulfide

[Symbols] ◎ : abundant ○ : common △ : few · : rare
[Alteration] I : strong II : medium III : weak IV : fresh
Nc:Native copper Cc:Chalcocite Bo:Bornite Cp:Chalcopyrite Cv:Covellite Sp:Sphalerite Py:Pyrite Po:Pyrrhotite Dn:Digenite Ga:Galena Mt:Magnetite Mh:Maghemite He:Hematite Mc:Marcasite Lm:Limonite Ge:Goethite Ru:Rutile
Q :Quartz Pl:Plagioclase Bi:Bibiotte Hb:Hornblende Au:Augite Di:Diopside Ol:Olivine Zr:Zircon Mon:Montmorillonite Ch:Chlorite Se:Sericite Ep:Epidote Ca:Calcite Fs:Feldspar Pn:Prehnite La:Laumontite Pr:Pyrophyllite
Tr:Tremolite Ac:Actinolite

Appendix-2 Chemical Analysis of Ores (1)

No.	Sample No.	Location & Sample Type (Element / Unit)	Au	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S	Sb	Zn
			g/t	Oz/t	ppm	ppm	%	%	ppb	%	%	Total	ppm	%
1	AOR-001	T ,Qv-float(φ=40cm)	<0.03	<0.001	<2	1	0.001	0.87	20	<0.001	0.003	0.003	0.4	0.004
2	AOR-003	T ,Qv-float(φ=100cm)	<0.03	<0.001	<2	2	0.001	0.57	30	<0.001	0.004	0.004	0.4	0.003
3	AOR-004	T ,Qv-float(φ=10cm)	<0.03	<0.001	<2	1	<0.001	0.62	10	<0.001	0.001	0.003	0.4	0.001
4	AOR-005	T ,Qv-float(φ=20cm)	<0.03	<0.001	<2	1	0.010	4.19	20	<0.001	<0.001	0.424	0.2	0.006
5	AOR-006	T ,Qv-float(φ=15cm)	<0.03	<0.001	<2	1	0.002	0.65	10	<0.001	<0.001	0.003	0.2	0.001
6	AOR-007	T ,Qv-float(φ=60cm)	<0.03	<0.001	<2	4	<0.001	0.56	10	<0.001	0.001	0.002	0.2	0.001
7	AOR-008	T ,Qv-float(φ=250cm)	<0.03	<0.001	<2	4	<0.001	0.75	20	<0.001	0.001	0.009	0.4	0.001
8	AOR-009	T ,Qv-float(φ=20cm)	<0.03	<0.001	<2	2	<0.001	0.47	10	<0.001	0.001	0.001	0.4	<0.001
9	AOR-010	T ,Qv-float(φ=2cm)	<0.03	<0.001	<2	1	0.002	1.94	10	<0.001	0.001	<0.001	0.4	0.003
10	AOR-011	T ,Qv-float(φ=10cm)	<0.03	<0.001	<2	4	<0.001	0.98	10	<0.001	0.002	0.003	0.2	0.002
11	AOR-012	T ,Qv-float(φ=150cm)	<0.03	<0.001	<2	2	<0.001	0.46	10	<0.001	0.002	<0.001	0.4	<0.001
12	AOR-013	T ,Qv-float(φ=5cm) with chl	<0.03	<0.001	<2	2	<0.001	0.55	10	<0.001	0.002	0.002	0.2	<0.001
13	AOR-014	T ,Qv-float(φ=3cm)	<0.03	<0.001	<2	1	<0.001	0.52	10	<0.001	0.001	<0.001	0.2	0.001
14	AOR-015	T ,Qv-float(φ=2cm×200cm)	<0.03	<0.001	<2	1	<0.001	0.53	20	<0.001	0.001	0.001	0.2	<0.001
15	AOR-016	T ,Qv-float(φ=40×25×16cm) with chl	<0.03	<0.001	<2	1	0.016	1.40	30	<0.001	0.001	0.209	<0.2	0.001
16	AOR-017	T ,Qv(W=5cm,L=50cm) with Py	<0.03	<0.001	<2	2	0.008	1.75	20	<0.001	0.003	0.012	0.2	0.002
17	AR-010	Ba,Diorite	<0.03	<0.001	<2	4	0.019	7.55	20	0.002	0.003	0.008	<0.2	0.010
18	AR-012	Ba,Silicified vein	<0.03	<0.001	<2	1	0.007	2.71	10	<0.001	0.003	0.007	0.2	0.003
19	AR-014	Ba,Silicified vein(W=10cm)	<0.03	<0.001	<2	2	0.001	4.07	10	<0.001	0.004	0.003	0.2	0.003
20	AR-016	Ba,Native copper in ss	<0.03	<0.001	<2	1	0.089	7.34	30	<0.001	0.001	0.017	<0.2	0.011
21	AR-017	Ba,Silt veins in ss(W=10cm)	<0.03	<0.001	<2	1	0.021	5.78	40	<0.001	0.001	0.013	0.2	0.008
22	AR-018	Ba,Qv(W=2cm) in brown fine tuff	0.03	0.001	<2	2	0.009	3.14	50	<0.001	0.002	0.003	<0.2	0.003
23	AR-020	Ba,Siliceous vein in ss(W=20～30cm)	<0.03	<0.001	<2	2	<0.001	5.25	20	<0.001	0.002	0.011	0.6	0.007
24	AR-040	Ty,Qv(W=3cm) in Silicified ss	<0.03	<0.001	<2	1	0.011	5.16	10	0.001	0.003	0.289	0.8	0.009
25	AR-044	P ,Silicified ss with Py	<0.03	<0.001	<2	4	0.014	5.41	10	0.001	0.002	0.221	<0.2	0.010
26	AR-061	C ,Silicified schist with Py	2.27	0.073	<2	2	0.005	4.30	10	<0.001	0.002	1.970	0.6	0.004
27	AR-063	T ,Qv(W=4cm) in green schist	<0.03	<0.001	<2	1	<0.001	0.44	10	<0.001	0.002	0.013	0.2	0.001
28	AR-065	T ,Milky Qv(W=25cm)	0.22	0.007	<2	2	0.002	2.09	10	<0.001	0.003	0.009	0.2	0.004
29	AR-066	T ,Qv(W=30cm) and silicified zone	0.09	0.003	<2	1	0.004	2.84	20	<0.001	0.002	0.184	0.2	0.004
30	AR-067	T ,Qv(W=90cm) in ss	0.06	0.002	<2	1	0.015	6.56	10	0.001	0.001	0.013	0.2	0.009
31	AR-068	T ,Qv(W=70cm) in schist	0.09	0.003	<2	1	0.015	7.12	10	<0.001	0.001	0.019	0.2	0.010
32	AR-069	T ,Milky Qv(W=30cm)	0.09	0.003	<2	2	0.001	1.24	10	<0.001	0.001	0.003	0.2	0.002
33	AR-070	T ,Qv(W=70cm) in schist	0.19	0.006	<2	1	0.009	4.73	20	<0.001	0.002	0.009	0.2	0.008
34	AR-071	T ,Milky Qv(W=30cm)	0.56	0.018	<2	2	0.001	1.56	40	<0.001	0.002	0.190	0.2	0.001
35	AR-075	T ,Qv(W=20cm) with some Py	10.33	0.332	<2	1	0.006	2.02	10	<0.001	0.001	0.261	0.2	0.002
36	AR-076	T ,Qv(W=50cm) with some Py(1～2mm)	1.03	0.033	<2	1	0.032	7.00	20	<0.001	0.002	0.507	0.2	0.010
37	AR-079	T ,Qv(W=23cm)	0.47	0.015	<2	1	0.006	2.18	10	<0.001	0.002	0.034	0.2	0.003
38	AR-095	K ,Milky Qv-float(W=5cm)	<0.03	<0.001	<2	1	0.001	1.38	10	<0.001	0.003	0.002	0.2	0.003
39	AR-098	K ,Andesitic porphyry	<0.03	<0.001	<2	2	0.005	3.30	30	<0.001	0.002	0.018	0.4	0.007
40	AR-099	K ,Andesitic porphyry with some Py	<0.03	<0.001	<2	10	0.014	6.56	10	<0.001	0.002	0.343	0.6	0.011
41	AR-104	K ,Qv(W=5cm) along andesite dike	<0.03	<0.001	<2	2	<0.001	1.00	10	<0.001	0.001	<0.001	0.8	0.003
42	AR-105	K ,Qv-float(W=10cm)	<0.03	<0.001	<2	4	0.003	1.90	20	<0.001	0.001	0.014	1.2	0.002
43	AR-106	K ,Milky Qv-float	<0.03	<0.001	<2	2	0.001	1.57	10	<0.001	0.001	0.003	0.6	0.002
44	AR-110	K ,Qv(φ=10cm)	2.92	0.094	<2	2	<0.001	3.07	10	0.002	0.002	2.010	0.6	0.002
45	BOR-002	T ,Qv(W=10cm) sheared zone	<0.03	<0.001	<2	4	<0.001	0.54	70	<0.001	0.002	0.017	0.4	0.001
46	BOR-003	T ,Qv-float(W=10cm) with Mn	<0.03	<0.001	<2	6	<0.001	0.66	20	<0.001	0.002	0.009	0.6	0.002
47	BOR-004	T ,Qv-float(W=10cm)	0.03	0.001	<2	1	<0.001	0.61	10	<0.001	<0.001	0.002	0.6	<0.001
48	BOR-006	C ,Qv(W=1～3cm)	<0.03	<0.001	<2	2	0.006	3.75	30	<0.001	<0.001	0.027	0.2	0.007
49	BOR-008	T ,Qv-float(W=10cm)	<0.03	<0.001	<2	2	<0.001	0.61	20	<0.001	0.001	0.001	0.6	<0.001
50	BOR-009	T ,Qv(W=10～60cm)	1.06	0.034	<2	1	0.001	0.84	40	0.001	0.001	0.093	0.4	<0.001

[Abbreviations]
A :Ananon Ab:Abobo creek Ag:Agban prospect An:Ananagnon creek Ar:Aroyao prospect B :Bato river Ba:Barinad creek C :Carorongan creek
Gu:Guiamlong river Hi:Hilacan river Ht:Hitoma river K :Kadlakogod creek Ka:Kaipa river Km:Kampayas creek Kp:Kapipihan river
Li:Libjo prospect M :Mamparong creek Ma:Maygnaway prospect Mi:Minaga creek Ml:Minaile river Mn:Manuria river My:Maytung river
P :Pinadaysan creek Pb:Pinugbyby creek Sa:San pedro prospect Sb:Soboc So:Solong prospect Sv:San Vicente T :Taganopol river
Tb:Tabugoc Tg:Tagbak area Tu:Tubli river Ty:Tabyonan creek V :Viga area

Appendix-2 Chemical Analysis of Ores (2)

No.	Sample No.	Location & Sample Type — Element	Au	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S	Sb	Zn
		Unit	g/t	Oz/t	ppm	ppm	%	%	ppb	%	%	Total	ppm	%
51	BOR-010	T ,Qv(W=5～50cm) with limonite	0.53	0.017	<2	1	0.001	1.51	20	<0.001	<0.001	0.040	0.4	0.002
52	CR-003	T ,Qv(W=5cm) in schist	<0.03	<0.001	<2	1	0.005	4.66	10	<0.001	0.001	<0.001	0.2	0.004
53	CR-007	Km,Qv(W=5cm) silicified vein	0.12	0.004	<2	1	0.001	2.39	10	<0.001	0.002	0.017	0.4	0.003
54	CR-009	T ,Qv(W=3cm)	<0.03	<0.001	<2	1	0.001	1.07	50	<0.001	0.001	<0.001	0.4	0.002
55	CR-010	T ,Qv-float(W=10cm) with Py	0.09	0.003	<2	100	0.019	7.57	30	<0.001	0.004	0.650	0.4	0.010
56	CR-032	B ,Qv(W=2cm) in ss	<0.03	<0.001	<2	14	0.003	2.36	10	<0.001	0.002	0.119	0.6	0.004
57	CR-033	B ,Qv(W=5cm)	<0.03	<0.001	<2	4	0.008	5.88	10	<0.001	0.002	0.013	0.6	0.008
58	DR-001	T ,Schist with chl and Py	<0.03	<0.001	<2	2	0.012	6.32	10	<0.001	0.003	0.680	0.4	0.010
59	DR-002	T ,Qv(W=3cm) in weathered schist	<0.03	<0.001	<2	2	0.018	6.32	10	<0.001	0.001	0.023	0.4	0.011
60	DR-004	T ,Qv(W=7cm)	<0.03	<0.001	<2	1	0.002	1.17	10	<0.001	<0.001	0.002	0.4	0.001
61	DR-005	T ,Qv(W=10cm)	<0.03	<0.001	<2	4	<0.001	0.64	20	<0.001	<0.001	<0.001	0.4	<0.001
62	DR-019	Km,Qv in fault	<0.03	<0.001	<2	80	0.013	5.64	10	0.001	0.001	1.970	0.8	0.009
63	DR-020	Tg,Qv(W=10cm) in lapilli tuff	<0.03	<0.001	<2	1	0.002	3.46	10	<0.001	0.001	0.011	0.4	0.003
64	EOR-001	C ,Qv(W=3cm) in schist	<0.03	<0.001	<2	1	0.001	1.02	10	<0.001	0.001	0.013	0.2	0.001
65	EOR-002	C ,Qv(W=3cm) in schist	<0.03	<0.001	<2	2	0.011	3.98	10	<0.001	0.002	0.014	0.4	0.006
66	EOR-004	C ,Qv-float(φ=70cm)	3.83	0.123	<2	2	<0.001	1.24	30	<0.001	0.003	0.042	0.4	0.002
67	EOR-007	C ,Qv(W=6cm) in schist	0.09	0.003	<2	1	0.005	2.11	10	<0.001	<0.001	0.431	0.2	0.002
68	EOR-008	C ,Qv(W=40cm) & clay	3.27	0.105	<2	2	0.004	7.15	10	<0.001	0.003	1.650	0.2	0.008
69	EOR-009	C ,Qv(W=30cm) & clay	10.70	0.344	<2	1	0.006	5.40	20	<0.001	0.001	1.080	0.2	0.006
70	EOR-010	C ,Silicified schist(φ=5cm) with Py	65.19	2.096	<2	2	0.001	2.91	10	<0.001	0.002	1.420	0.6	0.003
71	EOR-011	C ,Silicified ss(φ=5cm) with Py	0.62	0.020	<2	1	0.012	5.90	10	<0.001	0.002	0.357	0.4	0.011
72	EOR-012	C ,Qv(W=2cm) in schist	0.65	0.021	<2	1	0.004	2.20	20	<0.001	<0.001	0.040	1.2	0.004
73	EOR-013	T ,Qv(W=12cm) in schist	0.31	0.010	<2	1	0.001	1.98	10	<0.001	0.003	0.008	0.4	0.003
74	EOR-014	T ,Qv(W=20cm) in silicified schist	<0.03	<0.001	<2	1	0.002	1.18	10	<0.001	0.001	0.023	0.2	0.002
75	EOR-016	T ,Qv(W=2cm) in silicified schist	<0.03	<0.001	<2	2	0.002	0.93	10	<0.001	0.002	0.011	0.2	0.002
76	EOR-018	T ,Qv(W=5cm) in schist	<0.03	<0.001	<2	1	0.006	2.34	20	<0.001	0.002	<0.001	0.6	0.006
77	EOR-019	T ,Qv(W=2cm) in schist	<0.03	<0.001	<2	1	0.004	2.55	10	<0.001	0.003	0.001	0.4	0.005
78	EOR-020	T ,Qv(W=1.5cm) in schist	<0.03	<0.001	<2	2	<0.001	0.54	20	<0.001	0.002	<0.001	0.4	0.002
79	EOR-021	T ,Qv(W=12cm) in schist	<0.03	<0.001	<2	1	0.001	0.70	10	<0.001	0.002	0.002	0.2	0.002
80	EOR-025	T ,Qv(W=8cm) in schist	<0.03	<0.001	<2	2	0.001	0.51	10	<0.001	0.001	<0.001	0.4	0.002
81	EOR-026	T ,Qv(W=3cm) in schist	<0.03	<0.001	<2	1	0.002	1.57	10	<0.001	0.002	<0.001	0.2	0.003
82	EOR-028	T ,Qv(W=6cm) in schist	<0.03	<0.001	<2	1	0.005	1.81	100	<0.001	0.004	0.001	0.2	0.003
83	EOR-030	T ,Qv(W=2cm) in schist	<0.03	<0.001	<2	1	0.002	1.20	20	<0.001	0.002	0.019	0.4	0.002
84	EOR-032	T ,Qv(W=6cm) in schist	<0.03	<0.001	<2	1	0.008	2.72	10	<0.001	0.003	0.002	0.4	0.006
85	EOR-035	T ,Qv(W=30cm) in schist	2.43	0.078	<2	2	0.003	2.02	10	<0.001	0.003	0.078	0.6	0.003
86	EOR-036	T ,Qv(W=2cm) in schist	<0.03	<0.001	<2	1	0.001	0.65	10	<0.001	0.002	<0.001	0.4	0.002
87	EOR-039	T ,Qtz veinlets (W=2cm) in schist	<0.03	<0.001	<2	1	0.004	3.57	10	<0.001	0.003	0.009	0.4	0.006
88	EOR-042	T ,Qv(W=8cm) in schist	<0.03	<0.001	<2	1	<0.001	0.41	10	<0.001	0.002	<0.001	0.2	0.001
89	EOR-046	M ,Qv in ss	<0.03	<0.001	<2	2	0.005	2.53	10	<0.001	0.003	0.108	0.4	0.006
90	EOR-051	Km,Qv in dolerite	0.09	0.003	<2	2	0.008	6.13	10	<0.001	0.004	0.038	0.4	0.008
91	EOR-058	My,Qv-float in ss	0.03	0.001	<2	1	0.001	0.98	20	<0.001	0.002	0.007	0.4	0.002
92	EOR-059	My,Silicified ss with Qv(W=1cm)	<0.03	<0.001	<2	12	0.012	5.56	30	<0.001	0.005	0.525	0.6	0.011
93	EOR-060	My,Qv(W=6cm) in silicified ss	<0.03	<0.001	<2	2	0.004	3.54	10	<0.001	0.003	0.002	0.2	0.006
94	EOR-061	My,Silicified ss with Qtz-Py-Calcite	<0.03	<0.001	<2	2	0.007	4.77	10	<0.001	0.002	0.219	0.2	0.007
95	EOR-064	My,Silicified ss-float(φ=20cm)with Qtz-Py	<0.03	<0.001	<2	12	0.023	5.69	10	<0.001	0.004	0.357	0.2	0.012
96	EOR-065	My,Silicified ss(W=1cm) with Qtz-Py	<0.03	<0.001	<2	10	0.013	4.92	30	<0.001	0.004	0.166	0.2	0.010
97	EOR-068	My,Silicified ss(W=1cm) with Qtz-Py	<0.03	<0.001	<2	16	0.014	6.16	10	<0.001	0.002	0.039	<0.2	0.012
98	EOR-069	My,Silicified ss(W=1cm) with Qtz-Py	<0.03	<0.001	<2	12	0.023	4.59	30	<0.001	0.002	0.422	0.8	0.013
99	EOR-071	My,Silicified ss-float(φ=5cm) with Qtz-Py	<0.03	<0.001	<2	2	0.002	1.66	10	<0.001	0.002	0.008	0.2	0.004
100	EOR-074	My,Qv(W=2cm) in ss	<0.03	<0.001	<2	1	0.006	3.76	10	<0.001	0.003	0.017	<0.2	0.008

[Abbreviations]
A :Ananon Ab:Abobo creek Ag:Agban prospect An:Ananagnon creek Ar:Aroyao prospect B :Bato river Ba:Barinad creek C :Carorongan creek
Gu:Guiamlong river Hi:Hilacan river Ht:Hitoma river K :Kadlakogod creek Ka:Kaipa river Km:Kampayas creek Kp:Kapipihan river
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P :Pinadaysan creek Pb:Pinugbyby creek Sa:San pedro prospect Sb:Soboc So:Solong prospect Sv:San Vicente T :Taganopol river
Tb:Tabugoc Tg:Tagbak area Tu:Tubli river Ty:Tabyonan creek V :Viga area

Appendix-2 Chemical Analysis of Ores (3)

No.	Sample No.	Location & Sample Type	Element	Au	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S	Sb	Zn
			Unit	g/t	Oz/t	ppm	ppm	%	%	ppb	%	%	Total	ppm	%
101	EOR-083	Ka,Clay vein(W=35cm)		<0.03	<0.001	<2	18	0.019	7.10	20	<0.001	0.003	1.530	0.4	0.011
102	EOR-085	Ka,Silicified ss-float(φ=25cm)		<0.03	<0.001	<2	2	<0.001	1.20	10	<0.001	0.005	0.031	0.4	0.001
103	EOR-086	Ka,Milky Qv clay zone(W=6～30cm)		0.03	0.001	<2	2	0.006	3.02	10	<0.001	0.002	0.011	<0.2	0.004
104	EOR-088	Ka,Qv-float(φ=20cm)		<0.03	<0.001	<2	8	0.021	5.95	10	<0.001	0.004	0.030	2.2	0.011
105	ER-003	C ,Clay vein(W=20cm)		2.30	0.074	<2	1	0.030	10.15	40	<0.001	0.004	0.089	<0.2	0.010
106	ER-004	C ,Yellow clay vein(W=20cm)		1.71	0.055	<2	2	0.018	11.75	230	<0.001	0.002	0.064	0.2	0.015
107	ER-005	T ,Silicified schist with Py		0.06	0.002	2	60	0.012	6.46	10	<0.001	0.004	0.784	16.0	0.015
108	ER-006	T ,Schist-float with Py		<0.03	<0.001	4	2	0.020	7.18	10	<0.001	0.006	0.973	0.2	0.009
109	ER-016	M ,ss with fine grain Py		0.06	0.002	2	22	0.010	6.08	10	<0.001	0.004	0.821	0.8	0.011
110	ER-032	My,Weak silicified ss(W=1cm)		<0.03	<0.001	4	1	0.010	5.38	10	<0.001	0.003	0.019	<0.2	0.009
111	ER-036	My,Qv-float		0.03	0.001	<2	1	0.008	3.85	10	<0.001	0.003	0.021	0.2	0.007
112	ER-039	My,Silicified ss with Ep		<0.03	<0.001	<2	2	0.009	6.64	10	<0.001	0.002	0.025	0.2	0.009
113	ER-042	My,Silicified vein(W=7cm)		<0.03	<0.001	<2	1	0.002	3.42	10	<0.001	0.005	0.021	0.4	0.002
114	ER-044	My,Silicified ss		<0.03	<0.001	<2	2	0.014	5.26	10	<0.001	0.003	<0.001	0.2	0.007
115	ER-052	Ka,Weak silicified ss with Py		<0.03	<0.001	<2	1	0.013	6.17	10	<0.001	0.003	0.042	<0.2	0.010
116	ER-059	Ka,Silicified ss with many Py		<0.03	<0.001	<2	4	0.016	6.72	20	<0.001	0.004	0.119	0.6	0.011
117	ER-062	Ka,Silicified ss-float with Py		<0.03	<0.001	<2	2	0.013	7.35	10	<0.001	0.003	0.033	<0.2	0.010
118	ER-094	Ka,Silicified ss with Py		<0.03	<0.001	<2	110	0.009	2.87	10	<0.001	0.004	0.944	0.6	0.009
119	ER-095	Ka,Qv(W=40cm,L=16m)		<0.03	<0.001	2	300	0.008	3.33	10	<0.001	0.004	0.757	0.6	0.006
120	ER-102	Ka,Qv in andesite dike		<0.03	<0.001	2	2	0.007	4.05	20	<0.001	0.004	0.030	<0.2	0.002
121	ER-104	Ty,Silicified vein into ss		<0.03	<0.001	<2	1	0.011	4.10	20	<0.001	0.005	0.011	<0.2	0.007
122	ER-105	Ty,Qv(W=10cm) in ss		<0.03	<0.001	<2	2	0.005	3.83	10	<0.001	0.003	0.008	<0.2	0.006
123	ER-108	Ty,Qv with Ep in clay		<0.03	<0.001	<2	4	0.029	6.85	10	<0.001	0.003	0.024	<0.2	0.010
124	ER-110	P ,Qv with Py(W=15cm) in silisified ss		<0.03	<0.001	<2	8	0.012	5.66	10	<0.001	0.004	0.283	0.4	0.010
125	ER-117	Ba,Native copper in ss		<0.03	<0.001	<2	2	0.038	5.77	10	<0.001	0.003	0.026	<0.2	0.009
126	ER-118	Ba,acidic tuff		<0.03	<0.001	<2	1	0.011	6.35	10	<0.001	0.004	0.014	<0.2	0.009
127	ER-119	Ba,Native copper in ss		<0.03	<0.001	<2	1	0.111	7.03	50	<0.001	0.004	0.032	<0.2	0.011
128	ER-120	Ba,Diorite		<0.03	<0.001	<2	1	0.023	8.19	10	<0.001	0.004	0.019	<0.2	0.011
129	ER-121	Ba,Dolerite		<0.03	<0.001	<2	2	0.019	7.20	10	<0.001	0.004	0.016	<0.2	0.010
130	ER-122	Ba,ss with native copper		<0.03	<0.001	<2	<1	0.051	7.23	10	<0.001	0.003	0.027	<0.2	0.014
131	ER-123	Ba,Diorite with native copper		<0.03	<0.001	<2	2	0.047	7.99	10	<0.001	0.004	0.020	<0.2	0.010
132	ER-131	Kp,Qv-float		<0.03	<0.001	<2	1	<0.001	0.78	10	<0.001	0.003	0.004	<0.2	0.001
133	ER-133	Kp,Silicified ss		<0.03	<0.001	<2	14	0.006	4.89	10	<0.001	0.007	1.970	0.2	0.004
134	ER-134	Kp,Qv-float		<0.03	<0.001	<2	8	0.006	4.47	10	<0.001	0.006	0.223	<0.2	0.008
135	ER-137	K ,Qv-float(W=5cm)		<0.03	<0.001	<2	2	0.004	1.54	10	<0.001	0.003	0.004	0.2	0.002
136	ER-146	Kp,Qv in silicified ss with Py		<0.03	<0.001	<2	1	0.007	6.03	10	<0.001	0.004	0.107	<0.2	0.010
137	ER-147	Kp,Qv(W=3cm)		<0.03	<0.001	<2	2	<0.001	2.60	10	<0.001	0.004	0.001	<0.2	0.001
138	ER-150	Kp,Qv(W=3cm)		<0.03	<0.001	<2	1	0.003	2.40	10	<0.001	0.003	0.010	0.2	0.007
139	ER-153	Kp,Qv-float(φ=25cm)		<0.03	<0.001	<2	2	<0.001	0.69	10	<0.001	0.004	<0.001	<0.2	0.001
140	ER-155	C ,Qv in silicified schist		0.12	0.004	<2	1	0.009	4.85	20	<0.001	0.004	0.071	0.2	0.008
141	ER-156	C ,Limonite vein in schist		0.68	0.022	<2	<1	0.035	12.75	10	<0.001	0.006	0.084	0.2	0.013
142	ER-157	C ,Silicified ss(W=40cm) with Py		0.87	0.028	<2	2	0.002	1.73	10	<0.001	0.002	0.002	<0.2	0.002
143	ER-158	C ,Limonite vein(W=10cm) in schist		1.65	0.053	<2	1	0.015	5.67	10	<0.001	0.003	1.420	<0.2	0.009
144	ER-159	C ,Silicified ss(φ=5cm) with Py		1.09	0.035	<2	2	0.014	7.30	10	<0.001	0.005	1.520	<0.2	0.011
145	ER-160	C ,Silicified schist(W=100cm) with Py		0.75	0.024	<2	1	0.016	5.35	10	<0.001	0.005	1.350	<0.2	0.009
146	ER-162	C ,Qv & Clay vein(W=30cm) in schist		0.65	0.021	<2	2	0.022	9.93	140	<0.001	0.006	0.073	0.2	0.023
147	ER-163	C ,Qv (W=15cm) in schist		0.81	0.026	<2	2	0.012	6.96	50	<0.001	0.004	0.102	0.2	0.019
148	ER-164	C ,Silicified schist(W=50cm)		0.19	0.006	<2	2	<0.001	2.97	10	<0.001	0.003	0.063	<0.2	0.006
149	ER-165	C ,Silicified schist(W=50cm) with Py		2.46	0.079	<2	1	0.005	8.37	10	<0.001	0.007	3.090	<0.2	0.006
150	FR-003	T ,Milky Qv(W=3cm) in schist		<0.03	<0.001	<2	1	0.008	3.46	10	<0.001	0.003	0.032	<0.2	0.005

[Abbreviations]
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Tb:Tabugoc Tg:Tagbak area Tu:Tubli river Ty:Tabyonan creek V :Viga area

Appendix-2 Chemical Analysis of Ores (4)

No.	Sample No.	Location & Sample Type	Element	Au	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S	Sb	Zn
			Unit	g/t	Oz/t	ppm	ppm	%	%	ppb	%	%	Total	ppm	%
151	FR-005	T ,Milky Qv-float		<0.03	<0.001	<2	1	0.003	1.45	10	<0.001	0.003	0.014	<0.2	0.002
152	FR-006	T ,Milky Qv		<0.03	<0.001	<2	<1	0.001	2.40	10	<0.001	0.003	0.016	0.2	0.003
153	FR-007	T ,Milky Qv in schist		<0.03	<0.001	<2	1	<0.001	0.63	10	<0.001	0.003	<0.001	<0.2	0.001
154	FR-018	T ,Py stringer in schist		0.06	0.002	<2	2	0.019	8.68	10	<0.001	0.003	0.225	<0.2	0.014
155	FR-025	T ,Milky Qv in schist		<0.03	<0.001	<2	1	0.003	2.95	20	<0.001	0.003	<0.001	<0.2	0.006
156	FR-027	T ,Milky white Qv		<0.03	<0.001	<2	2	<0.001	0.64	10	<0.001	0.003	<0.001	<0.2	0.001
157	FR-038	T ,Qv-float with Py		0.03	0.001	<2	2	<0.001	0.78	10	<0.001	0.002	0.015	0.2	0.002
158	GR-002	My,Silicified ss with Py		<0.03	<0.001	<2	14	0.011	6.27	10	<0.001	0.003	0.116	<0.2	0.009
159	GR-009	Kp,Qv-flost(W<1cm) in schist		<0.03	<0.001	<2	2	<0.001	2.73	10	<0.001	0.004	0.008	0.2	0.002
160	GR-010	Kp,Qv-float(W<1cm)		<0.03	<0.001	2	1	0.009	5.21	10	<0.001	0.002	0.034	<0.2	0.007
161	GR-011	Kp,Qv(W=5～10cm) in ss		<0.03	<0.001	2	4	0.001	1.45	10	<0.001	0.002	0.003	<0.2	0.002
162	GR-012	Kp,Qv(W<5cm) in ss		<0.03	<0.001	4	2	<0.001	1.35	10	<0.001	0.001	0.011	<0.2	0.001
163	GR-013	Kp,Qv(W=10cm) in ss		<0.03	<0.001	2	1	0.001	1.47	10	<0.001	0.002	0.013	<0.2	0.002
164	GR-014	Ab,Qv(W=1～2cm) in weathered ss		3.95	0.127	2	1	0.001	1.08	10	<0.001	<0.001	<0.001	<0.2	0.002
165	GR-015	V ,Qv(W=3～5cm) in weathered ss		0.53	0.017	2	<1	0.001	0.75	10	<0.001	<0.001	0.002	<0.2	0.001
166	JR-022	Pb,Silicified ss with Py		<0.03	<0.001	4	1	0.010	5.62	30	<0.001	0.002	0.189	<0.2	0.010
167	JOR-001	Kp,Qv-float with Py		<0.03	<0.001	4	1	0.001	0.89	20	<0.001	<0.001	0.010	<0.2	0.001
168	JOR-002	K ,Qv-float with Py		<0.03	<0.001	2	2	0.003	2.32	10	<0.001	<0.001	0.016	0.2	0.004
169	KTG-018	Mi,Qv-float		1.40	0.045	2	1	0.006	4.36	20	<0.001	0.002	0.128	<0.2	0.005
170	KTG-037	Mi,Qv-float		0.28	0.009	2	2	0.008	3.77	20	<0.001	0.001	0.006	<0.2	0.006
171	XACR-021	So,Andestic Porphry with Py(φ=20cm)		<0.03	<0.001	4	1	0.023	3.98	10	<0.001	0.003	0.141	<0.2	0.006
172	XACR-022	So,Basalt with Py(φ=20cm)		0.06	0.002	4	1	0.056	5.43	240	<0.001	0.003	0.722	2.6	0.006
173	XACR-027	Tu,malachite-float(φ=30cm)		<0.03	<0.001	22	2	2.360	7.35	10	<0.001	0.001	0.083	0.4	0.012
174	XACR-028	Tu,malachite-float(φ=30cm)		<0.03	<0.001	22	<1	1.990	7.49	40	<0.001	0.002	0.045	0.2	0.010
175	XACR-038	An,Brown carbonate vein(W=15cm)		<0.03	<0.001	8	1	0.018	3.17	10	<0.001	0.004	0.070	<0.2	0.008
176	XACR-039	An,Brown carbonate vein(W=7cm)		<0.03	<0.001	8	2	0.009	2.97	10	<0.001	0.003	0.060	<0.2	0.007
177	XACR-040	Li,Brown carbonate vein(W=10cm)		<0.03	<0.001	8	2	0.013	3.09	10	<0.001	0.003	0.049	<0.2	0.007
178	XACR-059	Sa,Qv-float(φ=20cm) with Py		<0.03	<0.001	6	30	0.020	0.50	10	<0.001	0.001	0.039	0.4	0.001
179	XACR-062	Sa,Qv-float(φ=25cm)		<0.03	<0.001	6	2	0.006	0.47	20	<0.001	0.001	<0.001	<0.2	0.001
180	XACR-063	Sa,Qv-float(φ=6cm)		<0.03	<0.001	2	1	0.049	1.04	10	<0.001	0.003	0.031	1.2	0.001
181	XACR-071	Li,Limonite with Py(Outcrop W=15cm)		0.40	0.013	46	12	2.500	34.20	10	<0.001	0.002	7.070	0.4	0.004
182	XACR-073	Li,Limonite with Py(Outcrop W=15cm)		0.16	0.005	16	82	1.560	38.10	10	<0.001	0.005	0.382	4.4	0.016
183	XACR-095	Ag,Qv(φ=10cm)		<0.03	<0.001	2	2	0.073	1.70	10	<0.001	0.002	0.015	<0.2	0.001
184	XACR-096	Ag,Qv-float(φ=20cm) with Py		<0.03	<0.001	2	2	0.184	3.14	10	<0.001	0.001	0.053	<0.2	0.003
185	XACR-102	Ag,Qv-float(φ=12cm) with Py,Cp		<0.03	<0.001	2	1	0.184	1.03	10	<0.001	0.004	0.134	<0.2	0.001
186	XACR-103	Ag,Qv(W=5cm) with malachite,limonite		<0.03	<0.001	18	1	2.050	3.42	10	<0.001	0.004	0.060	1.2	<0.001
187	XACR-105	Ag,Qv(W=140cm) with Cp		<0.03	<0.001	2	2	0.064	1.46	10	<0.001	0.003	0.002	0.2	0.002
188	XACR-107	Ag,Qv(W=25cm)		<0.03	<0.001	2	1	0.011	0.78	20	<0.001	0.002	0.003	0.2	0.002
189	XACR-108	Ag,Qv(W=15cm)		<0.03	<0.001	<2	<1	0.007	1.02	10	<0.001	<0.001	0.009	<0.2	0.001
190	XACR-110	Ag,Qv(W=20cm)		<0.03	<0.001	2	2	0.047	2.19	10	<0.001	0.003	0.012	<0.2	0.001
191	XACR-111	Ag,Qv(W=100cm)		<0.03	<0.001	2	1	0.008	0.75	10	<0.001	0.001	0.002	0.2	0.001
192	XACR-142	Ag,Qv(W=20cm)		<0.03	<0.001	<2	2	0.027	2.91	60	<0.001	0.002	0.019	<0.2	0.005
193	XACR-151	Ar,Green and garnet skarn-float(φ=100cm)		<0.03	<0.001	2	38	0.003	12.75	40	<0.001	0.002	0.603	3.8	0.009
194	XBCOR-002	Gu,Qv(W=10cm) with limonite		<0.03	<0.001	2	2	0.012	4.43	10	<0.001	<0.001	0.028	0.6	0.012
195	XBCOR-003	Gu,Brown ss		<0.03	<0.001	<2	2	0.019	7.88	10	<0.001	0.005	0.070	0.6	0.014
196	XBCOR-012	Ma,silicified basalt		<0.03	<0.001	2	2	<0.001	7.13	10	<0.001	0.001	1.270	0.2	0.005
197	XBCOR-013	Ma,Qv-float(φ=20cm)		0.19	0.006	2	14	<0.001	0.56	20	<0.001	0.001	0.111	0.4	0.001
198	XBCOR-016	C ,Qv composit samples(φ=10)		5.79	0.186	2	2	0.003	2.44	10	<0.001	0.002	0.579	<0.2	0.004
199	XBCOR-017	C ,Qv composit samples(φ=10)		<0.03	<0.001	4	2	0.020	5.86	10	<0.001	0.004	0.030	0.2	0.012
200	XBCR-006	Hi,Qv-float(φ=10cm)		0.03	0.001	2	1	0.007	1.90	10	<0.001	0.003	0.001	<0.2	0.001

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Appendix-2 Chemical Analysis of Ores (5)

No.	Sample No.	Location & Sample Type	Au	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S	Sb	Zn
		Element / Unit	g/t	Oz/t	ppm	ppm	%	%	ppb	%	%	Total	ppm	%
201	XBCR-026	Sa,Qv-float(φ=50cm)	<0.03	<0.001	2	2	0.017	1.07	10	<0.001	0.003	0.030	<0.2	0.001
202	XBCR-047	Mn,Qv(W=10cm)	1.84	0.059	<2	1	0.001	1.15	10	<0.001	0.002	<0.001	0.2	0.003
203	XCCR-001	Tb,Qv(W=3cm)	<0.03	<0.001	2	1	0.007	2.33	10	<0.001	0.002	0.008	0.2	0.003
204	XDCR-013	Hi,Qv(W=2cm)	<0.03	<0.001	2	2	0.001	2.78	40	<0.001	<0.001	0.005	0.2	0.001
205	XDCR-014	Hi,Qv(W=2cm)	<0.03	<0.001	2	1	0.002	2.94	10	<0.001	0.002	0.013	0.2	0.001
206	XDCR-027	Sb,Qv(W=8cm)	<0.03	<0.001	2	2	0.004	1.91	10	<0.001	<0.001	0.127	<0.2	0.002
207	XDCR-076	Sv,Qv-float(φ=10cm) with Py	1.00	0.032	2	4	0.007	0.98	1050	<0.001	0.003	0.635	4.2	<0.001
208	XDCR-101	A ,Qv-float(φ=5cm)	<0.03	<0.001	2	2	0.046	1.95	10	<0.001	0.002	0.172	0.2	0.002
209	XECR-001	Ml,Conglomerate(φ=10cm) with Py	<0.03	<0.001	<2	1	0.010	6.98	10	<0.001	0.003	2.800	0.2	0.013
210	XHCR-002	Ht,Silicified vein(W=3cm) with Py	<0.03	<0.001	4	2	0.009	4.71	10	<0.001	0.003	0.051	0.2	0.007
211	XHCR-003	Ht,Silicified vein(W=2cm) with Py	<0.03	<0.001	2	28	0.023	6.89	10	<0.001	0.002	1.730	0.2	0.012
212	KA 0101	K,Panned concentrate	3.85	0.124	2	<2	0.007	42.0	4000	<0.001	0.003	0.003	<0.5	0.027
213	KA 0102	K,Panned concentrate	0.19	0.006	2	<2	0.008	37.1	3600	<0.001	0.004	<0.001	<0.5	0.024
214	KA 0201	K,Panned concentrate	49.39	1.588	2	<2	0.007	42.5	1350	<0.001	0.004	<0.001	<0.5	0.025
215	KA 0202	K,Panned concentrate	>622.1	>20.00	<2	<2	0.007	45.1	1040	<0.001	0.003	<0.001	<0.5	0.026
216	KA 0301	K,Panned concentrate	5.07	0.163	2	<2	0.008	47.8	500	<0.001	0.004	<0.001	<0.5	0.036
217	KA 0401	K,Panned concentrate	-	-	2	<2	0.010	38.1	700	<0.001	0.002	<0.001	<0.5	0.023
218	KA 0402	K,Panned concentrate	0.50	0.016	<2	<2	0.013	24.7	80	<0.001	0.002	<0.001	<0.5	0.018
219	KA 0403	K,Panned concentrate	15.55	0.500	2	<2	0.008	41.6	300	<0.001	0.006	<0.001	<0.5	0.025
220	KA 0501	K,Panned concentrate	12.94	0.416	<2	<2	0.009	27.5	140	<0.001	0.001	<0.001	<0.5	0.022
221	KA 0502	K,Panned concentrate	7.22	0.232	<2	<2	0.007	30.3	300	<0.001	0.004	<0.001	<0.5	0.017
222	KA 0601	K,Panned concentrate	0.90	0.029	<2	<2	0.010	28.5	200	<0.001	0.002	<0.001	<0.5	0.018
223	KA 0602	K,Panned concentrate	0.90	0.029	<2	<2	0.009	32.2	180	<0.001	0.003	0.001	<0.5	0.019
224	KA 0701	K,Panned concentrate	0.25	0.008	2	<2	0.007	39.5	120	<0.001	0.002	0.004	<0.5	0.024
225	KA 0702	K,Panned concentrate	22.89	0.736	2	<2	0.007	33.8	160	<0.001	0.005	0.003	<0.5	0.022
226	KA 0703	K,Panned concentrate	49.05	1.577	2	<2	0.009	28.0	140	<0.001	0.002	0.010	<0.5	0.019
227	KA 0801	K,Panned concentrate	0.62	0.020	2	<2	0.008	34.5	100	<0.001	0.003	0.003	<0.5	0.021
228	KA 0802	K,Panned concentrate	93.56	3.008	14	<2	0.009	44.4	20	<0.001	0.003	0.004	<0.5	0.031
229	KA 0901	K,Panned concentrate	5.35	0.172	2	<2	0.007	39.5	20	<0.001	0.003	0.003	<0.5	0.025
230	KA 1001	K,Panned concentrate	1.24	0.040	<2	<2	0.008	39.6	60	<0.001	0.001	0.005	<0.5	0.023
231	KA 1002	K,Panned concentrate	23.64	0.760	2	<2	0.008	46.3	40	<0.001	0.002	0.001	<0.5	0.031
232	KA 1101	K,Panned concentrate	20.65	0.664	2	<2	0.007	36.5	100	<0.001	0.002	0.006	<0.5	0.021
233	CA 0101	T,Panned concentrate	5.44	0.175	2	<2	0.031	40.5	80	<0.001	<0.001	0.013	<0.5	0.020
234	CA 0102	T,Panned concentrate	12.72	0.409	<2	<2	0.031	31.2	100	<0.001	<0.001	0.014	<0.5	0.012
235	CA 0103	T,Panned concentrate	47.28	1.520	<2	<2	0.016	14.0	60	<0.001	<0.001	0.004	<0.5	0.009
236	CA 0201	T,Panned concentrate	52.25	1.680	2	<2	0.022	>50.0	180	<0.001	0.001	0.013	<0.5	0.031
237	CA 0202	T,Panned concentrate	10.95	0.352	4	<2	0.023	>50.0	80	<0.001	0.003	0.015	<0.5	0.030
238	CA 0203	T,Panned concentrate	12.81	0.412	2	<2	0.018	>50.0	60	<0.001	<0.001	0.013	<0.5	0.032
239	CA 0301	T,Panned concentrate	2.24	0.072	2	<2	0.025	49.6	120	<0.001	0.002	0.013	<0.5	0.023
240	CA 0302	T,Panned concentrate	14.18	0.456	<2	<2	0.029	36.9	40	<0.001	0.001	0.011	<0.5	0.014
241	CA 0303	T,Panned concentrate	11.70	0.376	2	<2	0.029	40.5	20	<0.001	<0.001	0.010	<0.5	0.015

[Abbreviations]
A :Ananon Ab:Abobo creek Ag:Agban prospect An:Ananagnon creek Ar:Aroyao prospect B :Bato river Ba:Barinad creek C :Carorongan creek
Gu:Guiamlong river Hi:Hilacan river Ht:Hitoma river K :Kadlakogod creek Ka:Kaipa river Km:Kampayas creek Xp:Kapipihan river
Li:Libjo prospect M :Mamparong creek Ma:Maygnaway prospect Mi:Minaga creek Ml:Minaile river Mn:Manuria river My:Maytung river
P :Pinadaysan creek Pb:Pinugbyby creek Sa:San pedro prospect Sb:Soboc So:Solong prospect Sv:San Vicente T :Taganopol river
Tb:Tabugoc Tg:Tagbak area Tu:Tubli river Ty:Tabyonan creek V :Viga area

Appendix-3 X-ray Powder Diffraction Analysis (1)

Sample No.		Alteration Mineral / Locality Rock Type	Clay Mineral							The Others Mineral										
			Mon	Chl /Mon	Se /Mon	Ch	Se	Ka	Ph	La	Q	Fs	Ca	Ep	Pn	Hb	Ru	Mh	He	Py
1	AR-033	Ba,ss or igneous rock				○	△				○	◎							△	
2	AR-034	Ba,ss	·			△	△				◎	◎	△			·				
3	AR-036	Ba,andestic ss,alteration	·			△					○	◎	△			○				
4	AR-037	Ba,silicified rock				○					○	◎	◎						△	
5	AR-039	Ty,silicified ss				△	△				◎	◎	○						△	
6	AR-040	Ty,silicified ss	△			△						◎	△							·
7	AR-041	Ty,green grey ss or igneous rock	·			△					△	○	◎							
8	AR-044	Ty,silicified ss with Py	△			△					△	◎	◎							
9	AR-045	Ty,basaltic andesite,hydrothermal alteration				○	△				◎	◎	○							
10	AR-055	Bi,gabbro				△		△		△	◎	◎	△	·					△	
11	AR-061	C ,silicified rock with Py				·	○				△	◎								○
12	AR-067	T ,pale brown clay	△			○	○				◎	○								
13	AR-072	T ,white clay				△	○				◎	◎								
14	AR-073	T ,white clay with Qtz veinlet	·			△	△	△			○	◎								△
15	AR-095	K ,milky Qv-float									◎			△						
16	AR-100	K ,white fine tuff(?)				○	·				○	◎	△							
17	XACR-098	Ag,clay				△	·	△	·			△				◎				
18	XACR-114	Ag,silicified vein	△				△				◎	○								
19	BR-003	K ,veinlet of black clay in fracture zone				△	△		·		◎	△								○
20	BR-004	K ,white altered clay,W=40cm	·			△	△			·	◎	◎								·
21	CR-005	T ,white tuff				◎	△				○	○		○		△				
22	CR-016	Gi,dolerite,strong alteration	△			△					△	○			△					
23	CR-025	K ,white aplite,no sulfide				△	○				◎	◎								
24	CR-027	K ,white aplite,no sulfide				△	○				◎	◎								
25	DR-001	T ,clay vein with Py	·			○	△				◎	◎								△
26	DR-015	Km,chloritized ss in fracture zone				○					◎	◎	◎							
27	ER-003	C ,clay vein of Carorongan deposit					△				·	△					△			
28	ER-004	C ,schist of Carorongan deposit	·			△	△				○	○								

[Symbols] ◎ : abundant ○ : common △ : few · : rare

[Abbreviations] Mon:Montmorillonite Ch:Chlorite Se:Sericite Ka:Kaolinite Ph:Pyrophyllite La:Laumontite Q :Quartz Fs:Feldspar Ca:Calcite Ep:Epidote Pn:Prelmite Hb:Hornblende Ru:Rutile Mh:Maghemite He:Hematite Py:Pyrite Ag:Agban prospect Ba:Barinad creek Bi:bikat bikat creek C :Carorongan creek Gi:Gihawis creek K :Kadlakogod creek Ka:Kaipa river Km:Kampayas creek M :Mamparong creek My:Maytung river P :Pinadays creek T :Taganopol river Ty:Tabyonan creek

Appendix-3 X-ray Powder Diffraction Analysis (2)

Sample No.		Alteration Mineral / Locality Rock Type	Clay Mineral							The Others Mineral										
			Mon	Chl /Mon	Se /Mon	Ch	Se	Ka	Ph	La	Q	Fs	Ca	Ep	Pn	Hb	Ru	Mh	He	Py
29	ER-005	T ,silicified and argillized schist	△			○	△				○	◎	○							△
30	ER-007	T ,schist beside Qv				◎	△				○	◎	△							
31	ER-010	M ,ss with Qv				△	△				◎	○	○			·				
32	ER-012	M ,dolerite,strong alteration				○	△		△		◎	◎	△			○				
33	ER-013	M ,fracture zone beside dolerite				○	△				◎	○	◎							
34	ER-015	M ,green ss	△			○	△				△	◎	◎							
35	ER-017	M ,altcrated ss				△	△			△	◎	◎	◎	△					△	
36	ER-019	M ,clay vein				○	△				◎		◎							
37	ER-026	Km,white clay in fracture zone				·					◎	◎		○		△				
38	ER-041	My,calcite vein in silicified ss				○					△	○		△						
39	ER-042	My,silicified vein(W=7cm)				△	△				○	△		△						
40	ER-061	Ka,reddish acidic tuff	△			·					△	△							△	
41	ER-064	Ka,clay in fracture zone				△					·	○	△	·						
42	ER-065	Ka,light green clay vein in ss(W=4cm)				△					◎	○		△		△				
43	ER-083	Ka,brown clay vein				△	△				○	◎								
44	ER-088	Ka,weathering silicified ss with black vein		△		△	△				◎	△	△						△	
45	ER-090	Ka,clay along fault		△		△	△				◎	◎							△	
46	ER-091	Ka,ss of fracture zone				○	△				◎	◎	△							
47	ER-092	Ka,silicified ss	△			○	△				◎	◎	○							
48	ER-093	Ka,silicified ss with Py				△	△				○	◎	◎							△
49	ER-094	Ka,silicified ss with Py				△	△				◎		△							△
50	ER-102	Ka,Qv within basaltic andesite							△		○		△	△	◎				△	
51	ER-104	Ty,silicified acidic tuff	·			△					◎	◎	△	△					△	
52	ER-105	Ty,Qv and Ep vein,atrong alteration				△					◎	◎		△				△	△	
53	ER-109	Ty,Qv with clay				△	△				◎	○	◎	△					△	
54	ER-110	P ,pyritized Qv beside aplite dike	△			△	·				○	○	△							
55	ER-112	P ,clay of fault				○	△				◎	◎	○							
56	ER-115	P ,silicified white ss				·	△				◎	◎								

[Symbols] ◎ : abundant ○ : common △ : few · : rare

[Abbreviations] Mon:Montmorillonite Ch:Chlorite Se:Sericite Ka:Kaolinite Ph:Pyrophyllite La:Laumontite Q :Quartz Fs:Feldspar Ca:Calcite Ep:Epidote Pn:Prehnite Hb:Hornblende Ru:Rutile Mh:Maghemite He:Hematite Py:Pyrite
Ag:Agban prospect Ba:Barinad creek Bi:bikat bikat creek C :Carorongan creek Gi:Gihawis creek K :Kadlakogod creek Ka:Kaipa river Km:Kampayas creek M :Mamparong creek My:Maytung river P :Pinadays creek T :Taganopol river Ty:Tabyonan creek

Appendix-3 X-ray Powder Diffraction Analysis (3)

Sample No.		Alteration Mineral / Locality Rock Type	Clay Mineral							The Others Mineral										
			Mon	Chl /Mon	Se /Mon	Ch	Se	Ka	Ph	La	Q	Fs	Ca	Ep	Pn	Hb	Ru	Mh	He	Py
57	ER-118	Ba,reddish acidic tuff,strong alteration				△				△	◎	◎	△	△				△		
58	ER-133	Kp,silicified ss with Qv(W=1cm)		·		△	·		·		◎	△	△	△	○					
59	ER-138	K ,silicified and epidotized ss		△		△					◎	◎		·						
60	ER-139	K ,siliceous vein along small fault	△			△	△				◎	△								
61	EOR-064	My,silicified ss-float(φ=20cm) with Qtz-Py				△	△				◎	○	△							
62	EOR-065	My,silicified ss with Qtz-Py				○	△				◎	○	△							
63	EOR-066	My,silicified ss with Qtz-Py	△			○	△				△	◎	◎							
64	EOR-067	My,silicified lapilli tuff with Qtz				○	△				◎	○	○							
65	EOR-068	My,silicified ss with Qtz-Py				△	△				◎	○			△					
66	EOR-069	My,silicified ss with Qtz-Py		·		△	△				◎	○	△							△
67	EOR-083	Ka,light gray clay vein(W=35cm)				△	△				◎	○								
68	EOR-086	Ka,milky Qv in clay zone						△	△		◎	△			○					
69	EOR-088	Ka,Qtz and Ep vein-float(φ=20cm)				△	·				◎	○		○					△	
70	FR-002	C ,ss with Ch vein		△		○	△				◎	△	△							
71	FR-014	T ,brown tuff	△			○	·				◎	△								
72	FR-017	T ,schist with Py				◎	·				△	◎								
73	FR-018	T ,schist with Py				◎					○	◎								
74	FR-028	T ,diorite,alteration				◎	△				◎	◎		△						
75	FR-035	T ,ss,strong alteration	·			△	·				○	◎	◎							
76	FR-047	Km,diorite with Py	·			△	·				○	◎	○			△				
77	FR-048	Km,diorite				△	△				△	◎								
78	FR-049	Km,diolite,argillized fracture zone	△			△	·				△	○		△						
79	FR-050	Km,silicified tuff		△		○	△				○	◎				·			·	
80	FR-051	Km,diorite-float		△		△					△	◎	◎							
81	FR-058	K ,andesite porphyry with argillization				△	△			△	◎	◎		△						
82	FR-059	K ,silicified tuff				△	△				◎	◎	△							
83	FR-060	K ,silicified rock with limonite				·	△				◎	◎								
84	FR-061	K ,silicified ss				△	·				△	◎								

[Symbols] ◎ : abundant ○ : common △ : few · : rare

[Abbreviations] Mon:Montmorillonite Ch:Chlorite Se:Sericite Ka:Kaolinite Ph:Pyrophyllite La:Laumontite Q :Quartz Fs:Feldspar Ca:Calcite Ep:Epidote Pn:Prehnite Hb:Hornblende Ru:Rutile Mh:Maghemite He:Hematite Py:Pyrite Ag:Agban prospect Ba:Barinad creek Bi:bikat bikat creek C :Carorongan creek Gi:Gihawis creek K :Kadlakogod creek Ka:Kaipa river Km:Kampayas creek M :Mamparong creek My:Maytung river P :Pinadays creek T :Taganopol river Ty:Tabyonan creek

Appendix-3 X-ray Powder Diffraction Analysis (4)

Sample No.		Alteration Mineral / Locality Rock Type	Clay Mineral							The Others Mineral										
			Mon	Chl /Mon	Se /Mon	Ch	Se	Ka	Ph	La	Q	Fs	Ca	Ep	Pn	Hb	Ru	Mh	He	Py
85	FR-062	K ,lapilli tuff				△	·				○	◎								
86	HR-015	P ,ss of fracture zone	·			△	△	·			·	◎		△						
87	HR-016	Ty,silicified ss with Py				○	·	·			○	◎		△					△	
88	HR-017	Ty,silicified andesite with Py	△			△	△					○	△	△						
89	HR-027	Ba,reddish acidic tuff				△	·				○	◎							△	
90	HR-029	Ba,gabbro with thin Qv				△	△				△	◎	△							
91	HR-035	Ba,silicified ss with He	△			△			△		◎	○	◎		△					
92	JR-015	P ,greenish ss	·			△					·	◎		△					△	
93	JR-016	P ,greenish ss	·			△	△				○	○	△						△	
94	JR-017	P ,greenish ss		·		△	△				△	◎							△	
95	JR-018	P ,greenish ss		△		△	·				△	○								
96	JR-019	P ,greenish ss		△		△	△				△	◎								
97	JR-020	P ,silt with FeO/MnO stains				△	△				△	○		△						
98	JR-021	P ,ss with FeO/MnO stains				△	△				○	◎	△	·					·	
99	JR-022	P ,ss with FeO/MnO stains				△	·				○	○	△							·
100	JR-023	P ,greenish ss				·	△	△			△	◎								
101	JR-024	P ,greenish ss	△			△	△				△	◎	△							
102	JR-025	P ,silt with Qtz veinlet				△	△				△	◎	·							
103	JR-027	P ,slightly chloritized silt				△	△				△	◎								
104	JR-042	Ba,silicified ss with Qv and Ep vein	·			△			△		△	○		△	△					
105	JR-046	Ba,ss with FeO/MnO stains	△			·	△				△	○								
106	JR-047	Ba,hydrothemaly altered white clay		△	△	△	△				◎	△								

[Symbols] ◎ : abundant ○ : common △ : few · : rare

[Abbreviations] Mon:Montmorillonite Ch:Chlorite Se:Sericite Ka:Kaolinite Ph:Pyrophyllite La:Laumontite Q :Quartz Fs:Feldspar Ca:Calcite Ep:Epidote Pn:Prehnite Hb:Hornblende Ru:Rutile Mh:Maghemite He:Hematite Py:Pyrite
Ag:Agban prospect Ba:Barinad creek Bi:bikat bikat creek C :Carorongan creek Gi:Gihawis creek K :Kadlakogol creek Ka:Kaipa river Km:Kampayas creek M :Mamparong creek My:Maytung river P :Pinadays creek T :Taganopol river Ty:Tabyonan creek

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (1)

No.	Element	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S %	Sb	Zn
	Units	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	Total	ppm	ppm
	Detection Limit	1.0	0.2	2.0	1.0	0.01	1.0	1.0	2.0	0.010	2.0	2.0
1	AS-001	9.0	<0.2	<2.0	75.0	5.79	<1.0	<1.0	8.0	0.007	<2.0	68.0
2	AS-002	16.0	<0.2	<2.0	64.0	5.53	<1.0	<1.0	4.0	<0.001	<2.0	74.0
3	AS-003	<1.0	<0.2	<2.0	51.0	3.91	<1.0	<1.0	<2.0	0.001	<2.0	62.0
4	BS-001	4.0	<0.2	<2.0	115.0	7.29	<1.0	<1.0	10.0	0.003	<2.0	84.0
5	BS-002	2.0	<0.2	<2.0	116.0	7.97	<1.0	<1.0	4.0	0.004	<2.0	98.0
6	BS-003	41.0	<0.2	2.0	106.0	8.14	<1.0	<1.0	8.0	0.007	<2.0	84.0
7	BS-004	655.0	<0.2	<2.0	147.0	8.25	<1.0	<1.0	6.0	0.006	<2.0	102.0
8	BS-005	61.0	<0.2	<2.0	162.0	8.19	<1.0	<1.0	8.0	0.006	<2.0	120.0
9	BS-006	177.0	<0.2	<2.0	188.0	8.85	<1.0	<1.0	8.0	0.005	<2.0	116.0
10	BS-007	124.0	<0.2	2.0	199.0	9.87	<1.0	<1.0	10.0	0.005	<2.0	102.0
11	BS-008	34.0	<0.2	<2.0	166.0	9.08	<1.0	<1.0	6.0	0.004	<2.0	112.0
12	BS-009	343.0	<0.2	<2.0	173.0	11.15	<1.0	<1.0	10.0	0.004	<2.0	114.0
13	BS-010	125.0	<0.2	4.0	193.0	10.35	<1.0	<1.0	8.0	0.005	4.0	108.0
14	BS-011	1410.0	<0.2	2.0	168.0	13.35	<1.0	1.0	16.0	0.007	<2.0	104.0
15	BS-012	909.0	<0.2	<2.0	192.0	>15.00	<1.0	<1.0	8.0	0.006	<2.0	74.0
16	BS-013	1625.0	<0.2	<2.0	142.0	8.24	<1.0	<1.0	6.0	0.004	<2.0	116.0
17	BS-014	204.0	<0.2	4.0	135.0	8.75	<1.0	<1.0	8.0	0.005	2.0	108.0
18	BS-015	241.0	<0.2	<2.0	119.0	8.03	<1.0	<1.0	8.0	0.004	<2.0	102.0
19	BS-016	35.0	<0.2	<2.0	125.0	8.80	<1.0	<1.0	10.0	<0.001	<2.0	112.0
20	BS-017	141.0	<0.2	2.0	139.0	10.80	<1.0	<1.0	12.0	<0.001	<2.0	106.0
21	BS-018	375.0	<0.2	<2.0	125.0	10.65	<1.0	<1.0	18.0	0.006	2.0	74.0
22	BS-019	16.0	<0.2	4.0	125.0	9.80	<1.0	<1.0	8.0	0.003	<2.0	106.0
23	CS-001	48.0	<0.2	<2.0	127.0	8.50	<1.0	<1.0	8.0	0.008	<2.0	102.0
24	CS-002	5.0	<0.2	<2.0	118.0	11.95	<1.0	<1.0	12.0	0.003	<2.0	84.0
25	CS-003	<1.0	<0.2	<2.0	115.0	8.43	<1.0	<1.0	12.0	<0.001	<2.0	92.0
26	CS-004	16.0	<0.2	2.0	123.0	10.35	<1.0	<1.0	8.0	<0.001	<2.0	80.0
27	CS-005	20.0	<0.2	6.0	135.0	8.38	<1.0	<1.0	12.0	0.002	2.0	100.0
28	CS-006	4.0	<0.2	<2.0	186.0	9.92	<1.0	<1.0	6.0	<0.001	<2.0	108.0
29	CS-007	829.0	<0.2	<2.0	186.0	11.75	<1.0	<1.0	6.0	0.006	<2.0	92.0
30	CS-008	145.0	<0.2	4.0	120.0	9.10	<1.0	<1.0	6.0	0.046	<2.0	96.0
31	CS-009	1260.0	<0.2	<2.0	157.0	13.25	<1.0	<1.0	2.0	0.008	<2.0	82.0
32	CS-010	533.0	<0.2	<2.0	133.0	7.63	<1.0	<1.0	2.0	0.006	<2.0	96.0
33	CS-011	671.0	<0.2	<2.0	157.0	10.10	<1.0	<1.0	8.0	0.005	<2.0	86.0
34	CS-012	112.0	<0.2	<2.0	149.0	10.45	<1.0	<1.0	6.0	0.006	<2.0	72.0
35	CS-013	1695.0	<0.2	<2.0	133.0	8.47	<1.0	<1.0	6.0	<0.001	<2.0	96.0
36	CS-014	599.0	<0.2	<2.0	130.0	7.36	<1.0	<1.0	6.0	<0.001	<2.0	94.0
37	CS-015	63.0	<0.2	<2.0	119.0	6.70	<1.0	<1.0	4.0	<0.001	<2.0	92.0
38	CS-016	<1.0	<0.2	<2.0	108.0	6.02	<1.0	<1.0	6.0	<0.001	<2.0	92.0
39	CS-017	233.0	<0.2	<2.0	196.0	9.21	<1.0	<1.0	6.0	<0.001	<2.0	90.0
40	CS-018	3060.0	<0.2	<2.0	183.0	9.22	<1.0	<1.0	8.0	<0.001	<2.0	110.0
41	CS-019	106.0	<0.2	<2.0	160.0	8.47	<1.0	<1.0	4.0	0.005	<2.0	84.0
42	CS-020	19.0	<0.2	<2.0	139.0	7.43	<1.0	<1.0	6.0	<0.001	<2.0	96.0
43	CS-021	300.0	<0.2	<2.0	200.0	8.08	<1.0	<1.0	6.0	0.002	<2.0	94.0
44	CS-022	489.0	<0.2	<2.0	147.0	7.94	<1.0	<1.0	6.0	<0.001	<2.0	98.0
45	CS-023	657.0	<0.2	<2.0	132.0	6.37	<1.0	<1.0	2.0	0.001	<2.0	82.0
46	CS-024	167.0	<0.2	<2.0	157.0	7.68	<1.0	<1.0	4.0	<0.001	<2.0	100.0
47	CS-025	1800.0	<0.2	<2.0	192.0	9.39	<1.0	<1.0	8.0	<0.001	<2.0	92.0
48	CS-026	508.0	<0.2	<2.0	150.0	7.77	<1.0	<1.0	4.0	0.003	<2.0	100.0
49	CS-027	40.0	<0.2	<2.0	147.0	7.19	<1.0	<1.0	2.0	<0.001	<2.0	94.0
50	CS-028	11.0	<0.2	<2.0	139.0	7.07	<1.0	<1.0	4.0	0.002	<2.0	94.0
51	CS-029	2010.0	2.5	2.0	125.0	9.28	<1.0	<1.0	16.0	<0.001	<2.0	102.0
52	CS-030	780.0	0.6	<2.0	108.0	10.65	<1.0	<1.0	4.0	0.002	<2.0	94.0
53	CS-031	3160.0	<0.2	<2.0	100.0	>15.00	<1.0	<1.0	14.0	0.001	<2.0	106.0
54	CS-032	1590.0	<0.2	<2.0	117.0	10.95	<1.0	<1.0	8.0	0.002	<2.0	108.0
55	CS-033	2570.0	<0.2	<2.0	111.0	10.35	<1.0	<1.0	12.0	0.004	<2.0	96.0
56	CS-034	46.0	<0.2	<2.0	149.0	>15.00	<1.0	<1.0	6.0	<0.001	<2.0	184.0
57	CS-035	317.0	<0.2	4.0	136.0	7.07	<1.0	<1.0	10.0	<0.001	<2.0	100.0
58	CS-036	311.0	<0.2	<2.0	121.0	9.87	<1.0	<1.0	14.0	<0.001	<2.0	102.0
59	CS-037	81.0	<0.2	<2.0	164.0	9.62	<1.0	<1.0	8.0	<0.001	<2.0	92.0
60	CS-038	114.0	<0.2	<2.0	164.0	8.26	<1.0	<1.0	6.0	<0.001	<2.0	100.0
61	CS-039	462.0	<0.2	<2.0	172.0	9.67	<1.0	<1.0	6.0	<0.001	<2.0	84.0
62	CS-040	462.0	<0.2	<2.0	164.0	7.73	<1.0	<1.0	6.0	<0.001	2.0	94.0
63	CS-041	454.0	<0.2	2.0	153.0	6.64	<1.0	<1.0	4.0	<0.001	<2.0	82.0
64	CS-042	222.0	<0.2	<2.0	178.0	7.79	<1.0	<1.0	2.0	<0.001	<2.0	96.0
65	CS-043	587.0	<0.2	<2.0	186.0	10.10	<1.0	1.0	10.0	<0.001	<2.0	102.0
66	CS-044	367.0	<0.2	<2.0	217.0	9.82	<1.0	<1.0	8.0	<0.001	<2.0	112.0
67	CS-045	591.0	<0.2	<2.0	158.0	7.52	<1.0	<1.0	4.0	<0.001	<2.0	104.0
68	CS-046	2910.0	<0.2	<2.0	176.0	8.62	<1.0	<1.0	10.0	<0.001	<2.0	112.0
69	CS-047	826.0	<0.2	<2.0	179.0	9.79	<1.0	<1.0	8.0	<0.001	<2.0	100.0
70	CS-048	1665.0	<0.2	<2.0	167.0	12.80	<1.0	<1.0	10.0	<0.001	<2.0	96.0
71	CS-049	3060.0	<0.2	8.0	174.0	12.05	<1.0	<1.0	10.0	<0.001	<2.0	96.0
72	CS-050	242.0	<0.2	<2.0	240.0	12.70	<1.0	<1.0	12.0	<0.001	<2.0	72.0
73	CS-051	825.0	<0.2	<2.0	176.0	11.50	<1.0	<1.0	6.0	<0.001	<2.0	94.0
74	CS-052	684.0	<0.2	<2.0	176.0	12.10	<1.0	1.0	8.0	<0.001	<2.0	92.0
75	CS-053	4300.0	<0.2	<2.0	128.0	6.86	<1.0	<1.0	6.0	<0.001	<2.0	120.0
76	CS-054	48.0	<0.2	<2.0	133.0	7.04	<1.0	<1.0	12.0	<0.001	<2.0	120.0
77	CS-055	7830.0	<0.2	<2.0	121.0	6.50	<1.0	<1.0	12.0	<0.001	<2.0	122.0
78	CS-056	141.0	<0.2	<2.0	122.0	5.55	<1.0	<1.0	12.0	<0.001	<2.0	124.0
79	CS-057	2610.0	<0.2	<2.0	118.0	6.52	<1.0	<1.0	10.0	<0.001	<2.0	126.0
80	CS-058	2010.0	0.6	4.0	127.0	6.49	<1.0	<1.0	12.0	<0.001	<2.0	122.0
81	CS-059	672.0	0.4	4.0	150.0	6.28	<1.0	<1.0	10.0	0.015	<2.0	120.0
82	CS-060	4950.0	0.4	<2.0	122.0	5.65	<1.0	<1.0	10.0	0.011	<2.0	120.0
83	CS-061	>10000.0	3.8	<2.0	120.0	5.89	<1.0	<1.0	8.0	0.008	<2.0	124.0
84	CS-062	>10000.0	2.2	<2.0	116.0	5.29	<1.0	<1.0	6.0	0.006	<2.0	110.0
85	CS-063	353.0	0.2	<2.0	111.0	5.91	<1.0	<1.0	4.0	<0.001	<2.0	110.0
86	CS-064	125.0	0.2	8.0	115.0	6.31	<1.0	<1.0	6.0	<0.001	<2.0	100.0
87	CS-065	1200.0	0.4	<2.0	132.0	7.07	<1.0	<1.0	4.0	0.004	<2.0	100.0
88	CS-066	1330.0	0.4	<2.0	136.0	8.25	<1.0	<1.0	6.0	0.002	<2.0	108.0
89	CS-067	22.0	0.2	<2.0	109.0	6.12	<1.0	<1.0	4.0	0.005	<2.0	104.0
90	CS-068	26.0	0.2	4.0	123.0	7.90	<1.0	<1.0	4.0	0.004	2.0	116.0
91	CS-069	10.0	0.4	<2.0	155.0	9.99	<1.0	<1.0	6.0	0.009	<2.0	132.0
92	CS-070	2.0	0.4	<2.0	134.0	8.60	<1.0	<1.0	8.0	0.024	<2.0	128.0
93	CS-071	17.0	0.2	6.0	155.0	6.79	<1.0	<1.0	10.0	0.003	<2.0	100.0
94	CS-072	17.0	0.2	<2.0	129.0	7.22	<1.0	<1.0	8.0	0.005	<2.0	114.0
95	CS-073	3.0	0.2	4.0	119.0	7.50	<1.0	<1.0	8.0	0.002	<2.0	102.0
96	CS-074	2.0	0.4	<2.0	146.0	9.70	<1.0	<1.0	8.0	<0.001	<2.0	112.0
97	CS-075	7.0	0.4	<2.0	153.0	9.65	<1.0	<1.0	14.0	<0.001	<2.0	124.0
98	CS-076	1.0	0.4	<2.0	106.0	12.95	<1.0	<1.0	8.0	<0.001	<2.0	144.0
99	CS-077	1.0	<0.2	<2.0	124.0	6.50	<1.0	<1.0	2.0	<0.001	<2.0	110.0
100	CS-078	1.0	0.2	12.0	125.0	9.29	<1.0	1.0	8.0	<0.001	<2.0	118.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (2)

No.	Element Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
101	CS-079	<1.0	<0.2	12.0	133.0	12.80	<1.0	<1.0	<2.0	0.003	<2.0	112.0
102	CS-080	1.0	<0.2	30.0	181.0	11.05	<1.0	<1.0	<2.0	0.003	6.0	112.0
103	CS-081	4.0	<0.2	16.0	154.0	12.30	<1.0	<1.0	<2.0	0.005	<2.0	114.0
104	CS-082	<1.0	<0.2	12.0	123.0	11.00	<1.0	<1.0	<2.0	0.002	<2.0	114.0
105	CS-083	<1.0	<0.2	14.0	117.0	11.35	<1.0	<1.0	<2.0	0.003	<2.0	126.0
106	CS-084	4.0	<0.2	12.0	154.0	13.20	<1.0	<1.0	<2.0	0.005	<2.0	152.0
107	CS-085	67.0	<0.2	4.0	147.0	11.10	<1.0	<1.0	<2.0	0.005	<2.0	146.0
108	CS-086	8.0	<0.2	14.0	116.0	9.88	<1.0	<1.0	<2.0	0.004	<2.0	116.0
109	CS-087	163.0	<0.2	14.0	107.0	8.03	<1.0	<1.0	<2.0	<0.001	4.0	92.0
110	CS-088	2.0	<0.2	<2.0	90.0	8.13	<1.0	<1.0	<2.0	<0.001	<2.0	96.0
111	CS-089	<1.0	<0.2	12.0	101.0	7.55	<1.0	<1.0	<2.0	<0.001	4.0	92.0
112	CS-090	<1.0	<0.2	8.0	87.0	7.56	<1.0	<1.0	<2.0	<0.001	2.0	88.0
113	CS-091	<1.0	<0.2	4.0	99.0	7.29	<1.0	<1.0	<2.0	<0.001	<2.0	92.0
114	CS-092	<1.0	<0.2	4.0	116.0	9.46	<1.0	<1.0	<2.0	<0.001	2.0	122.0
115	CS-093	<1.0	<0.2	14.0	116.0	9.18	<1.0	<1.0	<2.0	<0.001	6.0	116.0
116	CS-094	1.0	<0.2	8.0	126.0	11.70	<1.0	<1.0	<2.0	0.004	2.0	136.0
117	CS-095	16.0	<0.2	16.0	126.0	9.41	<1.0	<1.0	<2.0	<0.001	4.0	112.0
118	CS-096	1.0	<0.2	36.0	139.0	9.70	<1.0	<1.0	<2.0	<0.001	14.0	112.0
119	CS-097	1.0	<0.2	18.0	163.0	8.16	<1.0	<1.0	<2.0	<0.001	4.0	120.0
120	CS-098	1.0	<0.2	2.0	118.0	8.97	<1.0	<1.0	<2.0	<0.001	<2.0	106.0
121	CS-099	<1.0	0.4	24.0	121.0	9.95	<1.0	<1.0	<2.0	0.009	6.0	124.0
122	CS-100	3460.0	0.4	16.0	120.0	7.07	<1.0	<1.0	<2.0	0.003	4.0	90.0
123	CS-101	1680.0	0.6	24.0	130.0	12.85	<1.0	<1.0	<2.0	0.006	6.0	102.0
124	CS-102	7020.0	1.2	28.0	114.0	7.13	<1.0	<1.0	<2.0	0.004	8.0	86.0
125	CS-103	199.0	0.4	22.0	113.0	6.18	<1.0	<1.0	<2.0	0.010	4.0	90.0
126	CS-104	120.0	0.2	22.0	125.0	8.05	<1.0	<1.0	<2.0	0.011	6.0	80.0
127	CS-105	1280.0	0.2	20.0	115.0	7.75	<1.0	<1.0	<2.0	0.015	4.0	88.0
128	CS-106	457.0	0.4	22.0	110.0	8.05	<1.0	<1.0	<2.0	0.012	6.0	86.0
129	CS-107	1800.0	0.4	8.0	144.0	5.44	<1.0	<1.0	<2.0	0.009	<2.0	98.0
130	CS-108	712.0	0.8	20.0	108.0	7.24	<1.0	<1.0	<2.0	0.020	2.0	90.0
131	CS-109	3620.0	3.4	24.0	125.0	9.48	<1.0	<1.0	<2.0	0.006	4.0	106.0
132	CS-110	2370.0	0.4	14.0	143.0	10.55	<1.0	<1.0	<2.0	0.011	<2.0	96.0
133	CS-111	850.0	0.6	18.0	127.0	7.17	<1.0	<1.0	<2.0	0.035	<2.0	100.0
134	CS-112	57.0	0.2	22.0	130.0	6.61	<1.0	<1.0	<2.0	0.013	2.0	104.0
135	CS-113	147.0	0.2	22.0	130.0	9.27	<1.0	<1.0	<2.0	0.005	4.0	118.0
136	CS-114	8090.0	2.2	2.0	125.0	8.21	<1.0	<1.0	<2.0	0.002	<2.0	98.0
137	CS-115	183.0	0.2	14.0	97.0	8.27	<1.0	<1.0	<2.0	<0.001	4.0	112.0
138	CS-116	3.0	0.2	<2.0	77.0	8.90	<1.0	<1.0	<2.0	<0.001	<2.0	94.0
139	CS-117	190.0	0.2	<2.0	102.0	8.09	<1.0	<1.0	<2.0	<0.001	<2.0	88.0
140	CS-118	<1.0	0.2	<2.0	62.0	3.74	<1.0	<1.0	<2.0	0.005	<2.0	64.0
141	CS-119	240.0	0.2	<2.0	98.0	8.16	<1.0	<1.0	<2.0	<0.001	<2.0	82.0
142	CS-120	4.0	0.2	<2.0	116.0	7.69	<1.0	<1.0	<2.0	<0.001	<2.0	80.0
143	CS-121	187.0	0.2	<2.0	100.0	9.52	<1.0	<1.0	<2.0	<0.001	<2.0	56.0
144	CS-122	6.0	0.2	<2.0	96.0	7.16	<1.0	<1.0	<2.0	<0.001	<2.0	74.0
145	CS-123	40.0	0.2	<2.0	104.0	8.40	<1.0	<1.0	<2.0	<0.001	<2.0	76.0
146	CS-124	1.0	0.2	<2.0	93.0	6.81	<1.0	<1.0	<2.0	<0.001	<2.0	70.0
147	CS-125	4.0	0.2	4.0	97.0	5.81	<1.0	<1.0	<2.0	<0.001	<2.0	72.0
148	CS-126	2.0	0.2	2.0	80.0	6.56	<1.0	<1.0	<2.0	0.003	<2.0	72.0
149	CS-127	33.0	0.2	<2.0	82.0	6.34	<1.0	<1.0	<2.0	<0.001	<2.0	70.0
150	CS-128	2.0	0.4	12.0	76.0	6.37	<1.0	<1.0	<2.0	<0.001	2.0	66.0
151	CS-129	17.0	0.4	<2.0	94.0	9.97	<1.0	<1.0	<2.0	<0.001	<2.0	64.0
152	CS-130	<1.0	0.4	<2.0	81.0	8.04	<1.0	<1.0	<2.0	<0.001	<2.0	74.0
153	CS-131	<1.0	0.4	<2.0	91.0	7.62	<1.0	<1.0	<2.0	<0.001	<2.0	68.0
154	CS-132	2.0	0.2	8.0	96.0	5.05	<1.0	<1.0	<2.0	<0.001	<2.0	66.0
155	CS-133	1.0	0.2	<2.0	128.0	5.16	<1.0	<1.0	<2.0	<0.001	<2.0	70.0
156	CS-134	<1.0	0.2	2.0	94.0	4.84	<1.0	<1.0	<2.0	<0.001	<2.0	64.0
157	CS-135	<1.0	0.2	<2.0	85.0	4.82	<1.0	<1.0	<2.0	<0.001	<2.0	64.0
158	CS-136	47.0	0.2	12.0	66.0	8.95	<1.0	<1.0	<2.0	<0.001	<2.0	48.0
159	CS-137	<1.0	<0.2	4.0	70.0	7.22	<1.0	<1.0	<2.0	<0.001	<2.0	80.0
160	CS-138	<1.0	0.2	<2.0	87.0	6.14	<1.0	1.0	<2.0	<0.001	<2.0	74.0
161	CS-139	<1.0	0.2	4.0	73.0	7.29	<1.0	1.0	<2.0	0.011	<2.0	58.0
162	CS-140	<1.0	0.2	<2.0	116.0	6.42	<1.0	<1.0	<2.0	0.003	<2.0	88.0
163	CS-141	2.0	0.2	6.0	112.0	6.22	<1.0	<1.0	<2.0	<0.001	<2.0	72.0
164	CS-142	7.0	0.2	14.0	143.0	9.32	<1.0	<1.0	4.0	0.003	<2.0	68.0
165	CS-143	62.0	0.2	<2.0	92.0	6.15	<1.0	<1.0	<2.0	<0.001	<2.0	52.0
166	CS-144	1.0	0.2	<2.0	93.0	5.55	<1.0	<1.0	<2.0	0.003	<2.0	74.0
167	CS-145	<1.0	0.2	<2.0	107.0	6.54	<1.0	<1.0	<2.0	<0.001	<2.0	76.0
168	CS-146	<1.0	<0.2	<2.0	98.0	6.38	<1.0	<1.0	<2.0	<0.001	<2.0	84.0
169	CS-147	<1.0	0.2	<2.0	101.0	9.45	<1.0	<1.0	<2.0	<0.001	<2.0	58.0
170	CS-148	<1.0	0.2	4.0	102.0	9.53	<1.0	<1.0	<2.0	<0.001	<2.0	56.0
171	CS-149	4.0	<0.2	<2.0	102.0	6.00	<1.0	<1.0	<2.0	<0.001	<2.0	62.0
172	CS-150	<1.0	0.2	<2.0	110.0	7.89	<1.0	<1.0	<2.0	<0.001	<2.0	56.0
173	CS-151	1.0	0.2	<2.0	96.0	6.66	<1.0	<1.0	<2.0	<0.001	<2.0	62.0
174	CS-152	35.0	<0.2	6.0	91.0	9.65	<1.0	<1.0	<2.0	<0.001	<2.0	48.0
175	CS-153	<1.0	0.2	2.0	72.0	6.36	<1.0	<1.0	<2.0	<0.001	<2.0	56.0
176	CS-154	<1.0	0.2	2.0	68.0	6.31	<1.0	<1.0	<2.0	<0.001	<2.0	54.0
177	CS-155	26.0	0.2	2.0	77.0	6.23	<1.0	<1.0	<2.0	<0.001	<2.0	52.0
178	CS-156	4.0	0.2	<2.0	91.0	6.02	<1.0	<1.0	<2.0	<0.001	<2.0	68.0
179	CS-157	2.0	0.4	<2.0	149.0	7.87	<1.0	<1.0	<2.0	0.002	<2.0	58.0
180	CS-158	6.0	0.2	<2.0	152.0	8.60	<1.0	<1.0	<2.0	<0.001	<2.0	56.0
181	CS-159	<1.0	0.2	<2.0	92.0	5.68	<1.0	<1.0	<2.0	<0.001	<2.0	60.0
182	CS-160	<1.0	0.2	<2.0	77.0	5.66	<1.0	<1.0	<2.0	<0.001	<2.0	68.0
183	CS-161	17.0	0.2	8.0	88.0	6.99	<1.0	<1.0	<2.0	<0.001	<2.0	76.0
184	CS-162	2.0	0.2	6.0	76.0	5.84	<1.0	<1.0	<2.0	<0.001	<2.0	66.0
185	DS-001	<1.0	<0.2	<2.0	119.0	6.85	<1.0	<1.0	<2.0	<0.001	2.0	82.0
186	DS-002	2.0	<0.2	<2.0	111.0	6.43	<1.0	<1.0	<2.0	0.002	2.0	86.0
187	DS-003	<1.0	<0.2	<2.0	121.0	6.13	<1.0	<1.0	<2.0	<0.001	2.0	76.0
188	DS-004	<1.0	<0.2	<2.0	80.0	5.83	<1.0	<1.0	<2.0	<0.001	4.0	78.0
189	DS-005	3.0	<0.2	<2.0	73.0	6.34	<1.0	<1.0	<2.0	<0.001	2.0	72.0
190	DS-006	33.0	<0.2	<2.0	157.0	7.36	<1.0	<1.0	<2.0	<0.001	4.0	106.0
191	DS-007	38.0	<0.2	<2.0	153.0	7.85	<1.0	<1.0	<2.0	0.003	2.0	106.0
192	DS-008	4.0	<0.2	<2.0	167.0	7.35	<1.0	<1.0	<2.0	<0.001	4.0	114.0
193	DS-009	351.0	<0.2	<2.0	158.0	7.89	<1.0	<1.0	<2.0	<0.001	2.0	112.0
194	DS-010	30.0	<0.2	<2.0	145.0	6.72	<1.0	<1.0	<2.0	<0.001	2.0	100.0
195	DS-011	173.0	<0.2	<2.0	165.0	10.05	<1.0	<1.0	<2.0	<0.001	8.0	90.0
196	DS-012	17.0	<0.2	<2.0	132.0	6.24	<1.0	<1.0	<2.0	<0.001	2.0	86.0
197	DS-013	330.0	<0.2	<2.0	178.0	6.69	<1.0	<1.0	<2.0	<0.001	2.0	88.0
198	DS-014	123.0	0.2	<2.0	172.0	5.16	<1.0	<1.0	<2.0	0.009	2.0	86.0
199	DS-015	5.0	<0.2	<2.0	131.0	5.60	<1.0	<1.0	<2.0	<0.001	2.0	96.0
200	DS-016	26.0	<0.2	<2.0	133.0	5.88	<1.0	<1.0	<2.0	<0.001	2.0	88.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (3)

No.	Element Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
201	DS-017	37.0	<0.2	<2.0	141.0	6.79	<1.0	<1.0	<2.0	<0.001	<2.0	86.0
202	DS-018	31.0	<0.2	<2.0	167.0	7.08	<1.0	<1.0	<2.0	<0.001	6.0	104.0
203	DS-019	276.0	<0.2	<2.0	180.0	8.19	<1.0	<1.0	<2.0	<0.001	4.0	110.0
204	DS-020	193.0	<0.2	<2.0	184.0	8.31	<1.0	<1.0	<2.0	<0.001	6.0	106.0
205	DS-021	92.0	<0.2	<2.0	186.0	8.45	<1.0	<1.0	<2.0	<0.001	2.0	108.0
206	DS-022	146.0	<0.2	<2.0	180.0	8.07	<1.0	<1.0	<2.0	<0.001	4.0	110.0
207	DS-023	101.0	<0.2	<2.0	161.0	7.23	<1.0	<1.0	<2.0	<0.001	2.0	100.0
208	DS-024	55.0	<0.2	<2.0	180.0	8.11	<1.0	<1.0	<2.0	<0.001	4.0	104.0
209	DS-025	7.0	0.2	<2.0	119.0	6.32	<1.0	<1.0	<2.0	<0.001	2.0	90.0
210	DS-026	52.0	<0.2	<2.0	165.0	6.48	<1.0	<1.0	<2.0	<0.001	2.0	108.0
211	DS-027	3.0	<0.2	<2.0	154.0	12.35	<1.0	<1.0	<2.0	<0.001	4.0	152.0
212	DS-028	2.0	<0.2	<2.0	122.0	7.43	<1.0	<1.0	<2.0	<0.001	6.0	98.0
213	DS-029	462.0	<0.2	6.0	91.0	4.54	<1.0	<1.0	<2.0	0.017	2.0	84.0
214	DS-030	6.0	<0.2	<2.0	131.0	5.08	<1.0	<1.0	<2.0	0.065	4.0	102.0
215	DS-031	39.0	<0.2	<2.0	113.0	4.71	<1.0	<1.0	<2.0	0.065	4.0	84.0
216	DS-032	3.0	<0.2	6.0	112.0	4.64	<1.0	<1.0	<2.0	0.044	<2.0	80.0
217	DS-033	1740.0	<0.2	<2.0	211.0	8.83	<1.0	<1.0	<2.0	0.005	2.0	106.0
218	DS-034	90.0	<0.2	<2.0	195.0	8.47	<1.0	<1.0	<2.0	<0.001	6.0	108.0
219	DS-035	29.0	<0.2	<2.0	217.0	8.85	<1.0	<1.0	<2.0	0.004	4.0	104.0
220	DS-036	314.0	<0.2	<2.0	206.0	10.10	<1.0	<1.0	<2.0	0.005	4.0	98.0
221	DS-037	126.0	<0.2	<2.0	188.0	7.96	<1.0	<1.0	<2.0	<0.001	4.0	112.0
222	DS-038	7830.0	0.6	<2.0	181.0	8.85	<1.0	<1.0	<2.0	<0.001	4.0	88.0
223	DS-039	794.0	<0.2	<2.0	183.0	6.42	<1.0	<1.0	<2.0	<0.001	2.0	92.0
224	DS-040	1510.0	<0.2	2.0	198.0	7.43	<1.0	<1.0	<2.0	<0.001	6.0	104.0
225	DS-041	59.0	<0.2	<2.0	180.0	6.29	<1.0	<1.0	<2.0	0.002	4.0	100.0
226	DS-042	294.0	<0.2	<2.0	184.0	7.93	<1.0	<1.0	<2.0	0.006	2.0	98.0
227	DS-043	204.0	<0.2	<2.0	180.0	7.56	<1.0	<1.0	<2.0	0.001	4.0	98.0
228	DS-044	80.0	<0.2	<2.0	180.0	7.51	<1.0	<1.0	<2.0	0.003	4.0	96.0
229	DS-045	132.0	<0.2	<2.0	230.0	8.18	<1.0	<1.0	<2.0	0.014	2.0	100.0
230	DS-046	2540.0	<0.2	<2.0	169.0	8.38	<1.0	<1.0	<2.0	0.004	4.0	94.0
231	DS-047	985.0	<0.2	<2.0	181.0	9.31	<1.0	<1.0	<2.0	0.004	4.0	88.0
232	DS-048	132.0	<0.2	<2.0	181.0	7.70	<1.0	<1.0	<2.0	0.003	4.0	106.0
233	DS-049	430.0	<0.2	<2.0	185.0	8.58	<1.0	<1.0	<2.0	0.001	4.0	90.0
234	DS-050	1340.0	<0.2	<2.0	187.0	9.44	<1.0	<1.0	<2.0	0.005	8.0	98.0
235	DS-051	22.0	<0.2	<2.0	201.0	8.24	<1.0	<1.0	<2.0	<0.001	4.0	98.0
236	DS-052	105.0	<0.2	<2.0	198.0	8.00	<1.0	<1.0	<2.0	<0.001	4.0	110.0
237	DS-053	28.0	<0.2	<2.0	152.0	5.89	<1.0	<1.0	<2.0	0.005	2.0	98.0
238	DS-054	344.0	<0.2	<2.0	139.0	6.51	<1.0	<1.0	<2.0	0.010	4.0	96.0
239	DS-055	955.0	<0.2	<2.0	116.0	6.42	<1.0	<1.0	2.0	0.002	4.0	84.0
240	DS-056	1380.0	<0.2	<2.0	126.0	6.44	<1.0	<1.0	<2.0	0.006	2.0	94.0
241	DS-057	945.0	<0.2	4.0	134.0	7.31	<1.0	<1.0	<2.0	0.006	2.0	108.0
242	DS-058	159.0	<0.2	6.0	118.0	6.01	<1.0	<1.0	<2.0	<0.001	2.0	118.0
243	DS-059	1690.0	1.4	2.0	153.0	7.54	<1.0	<1.0	2.0	<0.001	4.0	106.0
244	DS-060	14.0	<0.2	<2.0	131.0	7.23	<1.0	<1.0	<2.0	<0.001	6.0	108.0
245	DS-061	3.0	<0.2	<2.0	130.0	7.12	<1.0	<1.0	<2.0	0.005	4.0	108.0
246	DS-062	4.0	<0.2	<2.0	130.0	7.02	<1.0	<1.0	<2.0	0.006	8.0	104.0
247	DS-063	<1.0	<0.2	<2.0	126.0	9.83	<1.0	<1.0	<2.0	0.003	6.0	114.0
248	DS-064	<1.0	<0.2	<2.0	119.0	8.22	<1.0	<1.0	<2.0	0.003	2.0	100.0
249	DS-065	3.0	<0.2	<2.0	125.0	10.60	<1.0	<1.0	<2.0	0.004	6.0	144.0
250	DS-066	<1.0	<0.2	<2.0	108.0	8.81	<1.0	<1.0	<2.0	0.002	<2.0	100.0
251	DS-067	24.0	<0.2	<2.0	130.0	7.44	<1.0	<1.0	<2.0	0.002	4.0	102.0
252	DS-068	<1.0	<0.2	<2.0	138.0	7.28	<1.0	<1.0	<2.0	<0.001	2.0	100.0
253	DS-069	1.0	<0.2	<2.0	116.0	6.65	<1.0	<1.0	<2.0	0.005	2.0	92.0
254	DS-070	392.0	<0.2	<2.0	110.0	5.55	<1.0	<1.0	<2.0	0.004	<2.0	86.0
255	DS-071	16.0	<0.2	<2.0	114.0	4.85	<1.0	<1.0	<2.0	0.009	2.0	80.0
256	DS-072	143.0	<0.2	<2.0	99.0	4.58	<1.0	<1.0	<2.0	0.003	2.0	78.0
257	DS-073	98.0	<0.2	<2.0	85.0	4.10	<1.0	<1.0	2.0	0.007	<2.0	82.0
258	DS-074	1710.0	<0.2	<2.0	76.0	4.04	<1.0	<1.0	<2.0	0.003	2.0	80.0
259	DS-075	4.0	<0.2	<2.0	128.0	7.81	<1.0	<1.0	<2.0	0.002	6.0	100.0
260	DS-076	520.0	<0.2	<2.0	130.0	11.35	<1.0	<1.0	<2.0	0.005	6.0	120.0
261	DS-077	26.0	<0.2	<2.0	174.0	10.65	<1.0	<1.0	<2.0	0.002	8.0	142.0
262	DS-078	1.0	<0.2	<2.0	105.0	10.25	<1.0	<1.0	<2.0	0.002	6.0	120.0
263	DS-079	1.0	<0.2	<2.0	103.0	>15.00	<1.0	<1.0	4.0	<0.001	10.0	148.0
264	DS-080	5.0	<0.2	<2.0	119.0	9.24	<1.0	<1.0	<2.0	<0.001	6.0	106.0
265	DS-081	4.0	<0.2	<2.0	143.0	9.69	<1.0	<1.0	<2.0	<0.001	6.0	142.0
266	DS-082	1.0	<0.2	<2.0	141.0	8.77	<1.0	<1.0	<2.0	<0.001	6.0	120.0
267	DS-083	5.0	<0.2	2.0	144.0	11.20	<1.0	<1.0	<2.0	<0.001	8.0	132.0
268	DS-084	3.0	<0.2	<2.0	121.0	9.16	<1.0	<1.0	<2.0	0.006	6.0	120.0
269	DS-085	5.0	<0.2	<2.0	138.0	7.13	<1.0	<1.0	<2.0	<0.001	8.0	100.0
270	DS-086	1.0	<0.2	<2.0	139.0	8.78	<1.0	<1.0	<2.0	0.002	6.0	116.0
271	DS-087	3.0	<0.2	<2.0	133.0	6.06	<1.0	<1.0	<2.0	0.002	4.0	88.0
272	DS-088	1.0	<0.2	<2.0	126.0	7.32	<1.0	<1.0	<2.0	<0.001	2.0	90.0
273	DS-089	4.0	<0.2	<2.0	131.0	7.80	<1.0	<1.0	<2.0	0.002	2.0	100.0
274	DS-090	3.0	<0.2	<2.0	152.0	8.35	<1.0	<1.0	<2.0	0.006	8.0	108.0
275	DS-091	15.0	<0.2	<2.0	159.0	6.20	<1.0	<1.0	<2.0	0.013	<2.0	94.0
276	DS-092	<1.0	<0.2	2.0	148.0	6.68	<1.0	<1.0	<2.0	0.003	2.0	90.0
277	DS-093	20.0	<0.2	2.0	154.0	6.93	<1.0	<1.0	<2.0	0.006	2.0	94.0
278	DS-094	1260.0	<0.2	<2.0	131.0	6.97	<1.0	<1.0	2.0	0.007	4.0	96.0
279	DS-095	163.0	<0.2	<2.0	120.0	7.21	<1.0	<1.0	4.0	0.007	2.0	88.0
280	DS-096	1370.0	<0.2	<2.0	129.0	7.27	<1.0	<1.0	4.0	<0.001	4.0	88.0
281	DS-097	75.0	<0.2	<2.0	117.0	6.83	<1.0	<1.0	2.0	<0.001	6.0	82.0
282	DS-098	213.0	<0.2	2.0	143.0	9.55	<1.0	<1.0	6.0	<0.001	8.0	106.0
283	DS-099	1500.0	<0.2	<2.0	119.0	9.91	<1.0	<1.0	6.0	0.006	6.0	98.0
284	DS-100	3680.0	<0.2	<2.0	121.0	7.79	<1.0	<1.0	<2.0	0.007	6.0	92.0
285	DS-101	1570.0	<0.2	<2.0	129.0	7.96	<1.0	<1.0	<2.0	0.003	6.0	96.0
286	DS-102	10.0	<0.2	<2.0	80.0	7.95	<1.0	<1.0	<2.0	0.004	2.0	84.0
287	DS-103	<1.0	<0.2	<2.0	122.0	14.35	<1.0	<1.0	<2.0	<0.001	8.0	126.0
288	DS-104	5.0	<0.2	<2.0	103.0	5.57	<1.0	<1.0	<2.0	<0.001	4.0	78.0
289	DS-105	<1.0	<0.2	<2.0	115.0	11.95	<1.0	<1.0	<2.0	<0.001	6.0	112.0
290	DS-106	178.0	<0.2	<2.0	107.0	8.66	<1.0	<1.0	2.0	0.003	4.0	86.0
291	FS-001	2.0	<0.2	<2.0	116.0	6.93	<1.0	<1.0	<2.0	<0.001	2.0	84.0
292	FS-002	6.0	<0.2	<2.0	116.0	6.21	1.0	<1.0	<2.0	<0.001	4.0	80.0
293	FS-003	2.0	<0.2	<2.0	119.0	6.45	<1.0	<1.0	<2.0	<0.001	2.0	90.0
294	FS-004	20.0	<0.2	<2.0	117.0	6.58	<1.0	<1.0	<2.0	<0.001	4.0	86.0
295	FS-005	1.0	<0.2	<2.0	107.0	6.14	<1.0	<1.0	<2.0	<0.001	4.0	86.0
296	FS-006	28.0	<0.2	<2.0	100.0	6.09	<1.0	<1.0	<2.0	<0.001	4.0	78.0
297	FS-007	15.0	<0.2	<2.0	134.0	5.89	<1.0	<1.0	<2.0	<0.001	4.0	98.0
298	FS-008	75.0	<0.2	<2.0	149.0	7.38	<1.0	<1.0	<2.0	<0.001	4.0	92.0
299	FS-009	146.0	<0.2	<2.0	133.0	5.98	<1.0	<1.0	<2.0	<0.001	2.0	102.0
300	FS-010	6.0	<0.2	<2.0	151.0	6.47	<1.0	<1.0	<2.0	<0.001	6.0	90.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (4)

No.	Element	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S %	Sb	Zn
	Units	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	Total	ppm	ppm
301	FS-011	1.0	0.2	<2.0	172.0	6.42	<1.0	<1.0	<2.0	<0.001	4.0	114.0
302	FS-012	543.0	<0.2	<2.0	134.0	6.01	1.0	<1.0	2.0	0.112	2.0	100.0
203	FS-013	21.0	<0.2	<2.0	106.0	5.41	<1.0	<1.0	2.0	0.014	<2.0	118.0
304	FS-014	8.0	<0.2	4.0	132.0	6.46	<1.0	<1.0	4.0	0.006	2.0	104.0
305	FS-015	1490.0	<0.2	<2.0	124.0	5.59	<1.0	<1.0	4.0	0.020	2.0	104.0
306	FS-016	23.0	<0.2	<2.0	121.0	6.70	<1.0	<1.0	<2.0	0.003	4.0	90.0
307	FS-017	<1.0	<0.2	<2.0	149.0	6.70	<1.0	<1.0	<2.0	0.004	4.0	94.0
308	FS-018	2.0	<0.2	<2.0	116.0	5.78	<1.0	<1.0	<2.0	<0.001	4.0	86.0
309	FS-019	4.0	<0.2	<2.0	105.0	6.06	<1.0	<1.0	<2.0	<0.001	6.0	86.0
310	FS-020	2.0	<0.2	<2.0	124.0	6.78	<1.0	<1.0	<2.0	<0.001	4.0	92.0
311	FS-021	1.0	<0.2	<2.0	117.0	5.39	<1.0	<1.0	<2.0	<0.001	2.0	94.0
312	FS-022	8.0	<0.2	<2.0	115.0	5.21	<1.0	<1.0	<2.0	<0.001	2.0	86.0
313	FS-023	184.0	<0.2	<2.0	182.0	8.41	<1.0	1.0	<2.0	<0.001	6.0	124.0
314	FS-024	86.0	<0.2	<2.0	189.0	9.25	<1.0	<1.0	2.0	<0.001	8.0	130.0
315	FS-025	994.0	<0.2	<2.0	160.0	6.99	<1.0	<1.0	<2.0	<0.001	2.0	106.0
316	FS-026	46.0	<0.2	<2.0	168.0	7.80	<1.0	<1.0	<2.0	<0.001	2.0	118.0
317	FS-027	877.0	<0.2	<2.0	168.0	7.30	<1.0	<1.0	<2.0	<0.001	4.0	104.0
318	FS-028	284.0	<0.2	<2.0	184.0	7.73	<1.0	<1.0	<2.0	<0.001	4.0	104.0
319	FS-029	80.0	0.2	<2.0	148.0	6.79	<1.0	<1.0	<2.0	<0.001	<2.0	100.0
320	FS-030	19.0	<0.2	<2.0	179.0	8.28	<1.0	<1.0	<2.0	<0.001	4.0	112.0
321	FS-031	1.0	<0.2	<2.0	148.0	7.24	<1.0	<1.0	<2.0	<0.001	2.0	100.0
322	FS-032	<1.0	<0.2	<2.0	157.0	7.83	<1.0	<1.0	<2.0	<0.001	6.0	102.0
323	FS-033	<1.0	<0.2	<2.0	148.0	7.93	<1.0	<1.0	<2.0	<0.001	4.0	116.0
324	FS-034	<1.0	<0.2	<2.0	123.0	5.56	1.0	<1.0	<2.0	<0.001	4.0	90.0
325	FS-035	2.0	<0.2	4.0	159.0	7.81	<1.0	1.0	<2.0	<0.001	6.0	114.0
326	FS-036	1.0	<0.2	<2.0	141.0	7.08	<1.0	1.0	<2.0	<0.001	4.0	110.0
327	FS-037	<1.0	<0.2	<2.0	122.0	6.32	<1.0	<1.0	<2.0	0.006	4.0	94.0
328	FS-038	1.0	<0.2	<2.0	142.0	7.69	<1.0	<1.0	<2.0	0.009	4.0	112.0
329	FS-039	1.0	<0.2	<2.0	134.0	6.98	<1.0	<1.0	<2.0	0.010	4.0	112.0
330	FS-040	14.0	<0.2	<2.0	162.0	7.70	<1.0	<1.0	<2.0	0.006	6.0	106.0
331	FS-041	109.0	<0.2	<2.0	185.0	7.69	<1.0	1.0	<2.0	0.007	4.0	108.0
332	FS-042	1140.0	<0.2	<2.0	161.0	7.23	<1.0	<1.0	<2.0	<0.001	2.0	106.0
333	FS-043	4.0	<0.2	<2.0	165.0	6.33	<1.0	<1.0	<2.0	0.007	2.0	92.0
334	FS-044	8.0	<0.2	<2.0	155.0	7.48	<1.0	<1.0	<2.0	0.006	6.0	98.0
335	FS-045	1290.0	<0.2	<2.0	134.0	7.10	1.0	<1.0	<2.0	0.005	4.0	78.0
336	FS-046	32.0	<0.2	<2.0	186.0	10.25	<1.0	1.0	<2.0	0.009	8.0	104.0
337	FS-047	26.0	<0.2	<2.0	178.0	8.69	<1.0	1.0	<2.0	<0.001	6.0	100.0
338	FS-048	11.0	<0.2	<2.0	169.0	8.67	<1.0	<1.0	<2.0	<0.001	6.0	92.0
339	FS-049	30.0	<0.2	<2.0	181.0	7.65	<1.0	<1.0	<2.0	<0.001	2.0	116.0
340	FS-050	15.0	<0.2	<2.0	184.0	7.13	<1.0	<1.0	<2.0	<0.001	4.0	122.0
341	FS-051	148.0	<0.2	<2.0	210.0	7.54	<1.0	1.0	<2.0	<0.001	4.0	96.0
342	FS-052	19.0	<0.2	<2.0	177.0	7.24	<1.0	<1.0	<2.0	<0.001	4.0	112.0
343	FS-053	25.0	<0.2	<2.0	205.0	6.87	<1.0	<1.0	<2.0	<0.001	4.0	94.0
344	FS-054	13.0	<0.2	<2.0	149.0	6.75	<1.0	<1.0	<2.0	0.006	4.0	94.0
345	FS-055	16.0	<0.2	<2.0	178.0	8.03	<1.0	<1.0	<2.0	0.006	4.0	118.0
346	FS-056	453.0	<0.2	<2.0	166.0	7.29	<1.0	1.0	<2.0	0.010	6.0	110.0
347	FS-057	233.0	<0.2	<2.0	172.0	7.42	<1.0	<1.0	<2.0	0.007	6.0	110.0
348	FS-058	130.0	<0.2	<2.0	180.0	8.74	<1.0	<1.0	<2.0	0.009	6.0	106.0
349	FS-059	139.0	<0.2	<2.0	127.0	6.08	<1.0	<1.0	4.0	0.004	6.0	100.0
350	FS-060	855.0	<0.2	<2.0	182.0	7.84	<1.0	<1.0	<2.0	0.008	4.0	114.0
351	FS-061	10.0	<0.2	<2.0	191.0	8.53	<1.0	<1.0	<2.0	0.008	4.0	116.0
352	FS-062	48.0	<0.2	<2.0	181.0	7.50	<1.0	<1.0	<2.0	0.005	4.0	108.0
353	FS-063	23.0	<0.2	<2.0	180.0	6.94	<1.0	<1.0	<2.0	0.002	4.0	92.0
354	FS-064	1.0	<0.2	4.0	127.0	6.03	<1.0	<1.0	2.0	0.005	2.0	100.0
355	FS-065	1.0	<0.2	4.0	127.0	5.72	<1.0	<1.0	4.0	<0.001	<2.0	96.0
356	FS-066	<1.0	<0.2	6.0	124.0	5.31	<1.0	<1.0	<2.0	<0.001	2.0	102.0
357	FS-067	<1.0	<0.2	<2.0	136.0	5.69	<1.0	<1.0	<2.0	<0.001	<2.0	98.0
358	FS-068	3.0	0.2	<2.0	146.0	5.57	<1.0	<1.0	4.0	0.013	4.0	124.0
359	FS-069	149.0	<0.2	<2.0	109.0	5.93	<1.0	<1.0	<2.0	0.006	6.0	100.0
360	FS-070	180.0	<0.2	<2.0	142.0	6.55	<1.0	<1.0	4.0	0.008	6.0	110.0
361	FS-071	4540.0	<0.2	<2.0	147.0	6.84	<1.0	<1.0	<2.0	0.009	2.0	108.0
362	FS-072	38.0	<0.2	<2.0	163.0	8.04	<1.0	<1.0	<2.0	0.008	8.0	118.0
363	FS-073	1200.0	<0.2	<2.0	164.0	7.53	<1.0	<1.0	2.0	0.014	6.0	108.0
364	FS-074	53.0	<0.2	<2.0	166.0	7.94	<1.0	<1.0	<2.0	0.016	6.0	118.0
365	FS-075	35.0	<0.2	<2.0	162.0	8.64	<1.0	<1.0	<2.0	<0.001	6.0	104.0
366	FS-076	2.0	<0.2	<2.0	142.0	7.18	<1.0	<1.0	<2.0	<0.001	4.0	106.0
367	FS-077	5.0	<0.2	<2.0	161.0	7.06	<1.0	<1.0	4.0	<0.001	4.0	104.0
368	FS-078	3.0	<0.2	<2.0	140.0	9.29	<1.0	<1.0	4.0	<0.001	4.0	132.0
369	FS-079	3.0	<0.2	<2.0	143.0	9.13	<1.0	<1.0	2.0	<0.001	2.0	134.0
370	FS-080	3.0	<0.2	<2.0	139.0	8.92	<1.0	<1.0	4.0	<0.001	6.0	126.0
371	FS-081	2.0	<0.2	<2.0	113.0	6.14	<1.0	<1.0	<2.0	0.007	4.0	98.0
372	FS-082	53.0	<0.2	<2.0	155.0	7.02	<1.0	<1.0	<2.0	<0.001	6.0	100.0
373	FS-083	16.0	<0.2	<2.0	142.0	5.55	<1.0	<1.0	2.0	0.023	2.0	94.0
374	FS-084	<1.0	<0.2	<2.0	95.0	4.52	<1.0	<1.0	<2.0	0.032	<2.0	94.0
375	FS-085	167.0	<0.2	<2.0	105.0	4.36	<1.0	<1.0	<2.0	0.026	2.0	80.0
376	FS-086	10.0	<0.2	<2.0	118.0	4.93	<1.0	<1.0	<2.0	0.113	2.0	92.0
377	FS-087	2.0	<0.2	<2.0	106.0	6.25	<1.0	<1.0	<2.0	0.009	4.0	90.0
378	FS-088	8.0	0.2	2.0	153.0	7.89	<1.0	<1.0	<2.0	0.009	2.0	110.0
379	FS-089	2.0	<0.2	<2.0	128.0	7.77	<1.0	<1.0	<2.0	0.006	8.0	106.0
380	FS-090	1.0	<0.2	<2.0	139.0	6.61	<1.0	<1.0	2.0	0.010	2.0	98.0
381	FS-091	<1.0	<0.2	2.0	138.0	6.66	<1.0	<1.0	<2.0	0.011	4.0	100.0
382	FS-092	<1.0	<0.2	<2.0	125.0	7.24	<1.0	<1.0	<2.0	0.005	4.0	102.0
383	FS-093	<1.0	0.2	2.0	134.0	6.36	<1.0	<1.0	2.0	0.008	6.0	90.0
384	FS-094	2.0	<0.2	<2.0	144.0	6.85	<1.0	<1.0	<2.0	0.009	2.0	90.0
385	FS-095	<1.0	<0.2	<2.0	137.0	7.39	<1.0	<1.0	<2.0	0.002	<2.0	80.0
386	FS-096	2.0	<0.2	<2.0	124.0	7.39	<1.0	<1.0	<2.0	0.001	<2.0	78.0
387	FS-097	2.0	<0.2	<2.0	118.0	6.97	<1.0	<1.0	2.0	<0.001	<2.0	72.0
388	FS-098	2.0	<0.2	<2.0	139.0	7.76	<1.0	<1.0	<2.0	<0.001	<2.0	76.0
389	FS-099	3.0	<0.2	<2.0	151.0	7.24	<1.0	<1.0	<2.0	0.008	<2.0	84.0
390	FS-100	3.0	<0.2	<2.0	144.0	7.63	<1.0	<1.0	4.0	0.002	<2.0	80.0
391	FS-102	25.0	<0.2	<2.0	129.0	6.93	<1.0	<1.0	2.0	<0.001	<2.0	74.0
392	FS-103	5.0	<0.2	<2.0	168.0	8.18	<1.0	<1.0	<2.0	<0.001	2.0	92.0
393	FS-104	3.0	<0.2	<2.0	158.0	8.10	<1.0	<1.0	<2.0	0.003	4.0	92.0
394	FS-105	5.0	<0.2	<2.0	188.0	6.27	<1.0	<1.0	<2.0	<0.001	<2.0	70.0
395	FS-106	2.0	<0.2	<2.0	171.0	7.95	<1.0	1.0	4.0	0.006	<2.0	92.0
396	FS-107	52.0	<0.2	<2.0	110.0	5.34	<1.0	<1.0	<2.0	0.010	<2.0	74.0
397	FS-108	278.0	<0.2	<2.0	116.0	5.86	<1.0	<1.0	<2.0	0.009	<2.0	80.0
398	FS-109	312.0	<0.2	<2.0	109.0	6.34	<1.0	<1.0	<2.0	0.016	2.0	76.0
399	FS-110	112.0	<0.2	<2.0	136.0	5.51	<1.0	<1.0	<2.0	0.018	4.0	110.0
400	FS-111	1270.0	0.2	<2.0	129.0	4.42	<1.0	1.0	4.0	0.021	<2.0	108.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (5)

No.	Element Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
401	FS-112	137.0	<0.2	<2.0	134.0	6.93	<1.0	<1.0	2.0	0.016	<2.0	106.0
402	FS-113	121.0	<0.2	<2.0	124.0	7.66	<1.0	<1.0	<2.0	0.013	<2.0	90.0
403	FS-114	24.0	<0.2	<2.0	188.0	8.26	<1.0	<1.0	2.0	0.011	<2.0	86.0
404	FS-115	156.0	<0.2	<2.0	127.0	8.28	<1.0	<1.0	<2.0	0.012	<2.0	92.0
405	FS-116	225.0	<0.2	<2.0	135.0	8.39	<1.0	<1.0	6.0	0.008	<2.0	86.0
406	FS-117	452.0	<0.2	<2.0	133.0	8.84	<1.0	<1.0	4.0	0.013	<2.0	90.0
407	FS-118	4.0	<0.2	<2.0	145.0	6.05	<1.0	<1.0	<2.0	0.011	<2.0	74.0
408	FS-119	5.0	<0.2	<2.0	115.0	5.27	<1.0	<1.0	<2.0	0.015	2.0	64.0
409	FS-120	52.0	<0.2	<2.0	164.0	6.26	<1.0	<1.0	<2.0	0.068	<2.0	76.0
410	FS-121	<1.0	<0.2	<2.0	121.0	8.72	<1.0	<1.0	<2.0	0.008	<2.0	98.0
411	FS-122	2.0	<0.2	<2.0	116.0	7.64	<1.0	<1.0	<2.0	0.009	<2.0	100.0
412	FS-123	60.0	<0.2	<2.0	120.0	8.10	<1.0	<1.0	<2.0	<0.001	<2.0	96.0
413	FS-124	1.0	<0.2	<2.0	122.0	8.36	<1.0	<1.0	<2.0	0.008	<2.0	100.0
414	FS-125	5.0	<0.2	<2.0	136.0	7.99	<1.0	1.0	4.0	0.010	<2.0	102.0
415	FS-126	15.0	<0.2	<2.0	165.0	7.61	<1.0	<1.0	<2.0	0.012	<2.0	98.0
416	FS-127	4.0	<0.2	<2.0	121.0	6.88	<1.0	<1.0	4.0	0.011	<2.0	90.0
417	FS-128	1.0	<0.2	10.0	136.0	6.82	<1.0	<1.0	<2.0	0.020	<2.0	102.0
418	FS-129	<1.0	<0.2	<2.0	111.0	7.02	<1.0	<1.0	<2.0	0.013	<2.0	80.0
419	FS-130	<1.0	<0.2	<2.0	88.0	5.26	<1.0	<1.0	<2.0	0.008	<2.0	80.0
420	FS-131	<1.0	<0.2	<2.0	109.0	6.93	<1.0	<1.0	<2.0	0.010	2.0	90.0
421	FS-132	<1.0	<0.2	<2.0	99.0	7.91	<1.0	<1.0	<2.0	0.017	<2.0	80.0
422	FS-133	<1.0	<0.2	<2.0	110.0	6.48	<1.0	1.0	<2.0	0.017	<2.0	92.0
423	FS-134	<1.0	<0.2	<2.0	117.0	6.67	<1.0	<1.0	<2.0	0.017	<2.0	94.0
424	FS-135	542.0	<0.2	<2.0	128.0	7.36	<1.0	<1.0	<2.0	0.055	<2.0	94.0
425	FS-136	3.0	<0.2	<2.0	94.0	8.81	<1.0	<1.0	<2.0	0.002	<2.0	72.0
426	FS-137	<1.0	<0.2	<2.0	96.0	9.13	<1.0	<1.0	<2.0	0.016	<2.0	70.0
427	FS-138	9.0	<0.2	<2.0	100.0	6.51	<1.0	<1.0	<2.0	0.015	<2.0	72.0
428	FS-139	<1.0	<0.2	<2.0	96.0	6.25	<1.0	<1.0	<2.0	0.016	<2.0	68.0
429	FS-140	<1.0	<0.2	<2.0	111.0	8.42	<1.0	<1.0	<2.0	0.029	<2.0	70.0
430	FS-141	1.0	<0.2	<2.0	97.0	8.49	<1.0	<1.0	<2.0	0.024	<2.0	72.0
431	FS-142	<1.0	<0.2	<2.0	93.0	10.75	<1.0	<1.0	<2.0	0.023	2.0	66.0
432	FS-143	<1.0	<0.2	<2.0	101.0	5.66	<1.0	<1.0	<2.0	0.026	<2.0	74.0
433	FS-144	<1.0	<0.2	<2.0	101.0	5.78	<1.0	<1.0	<2.0	0.022	<2.0	76.0
434	FS-145	4.0	<0.2	<2.0	60.0	3.06	<1.0	<1.0	<2.0	0.023	<2.0	44.0
435	FS-146	<1.0	<0.2	<2.0	98.0	6.47	<1.0	<1.0	<2.0	0.031	<2.0	60.0
436	FS-147	<1.0	<0.2	<2.0	106.0	6.48	<1.0	<1.0	<2.0	0.028	<2.0	72.0
437	FS-148	17.0	<0.2	<2.0	101.0	5.67	<1.0	<1.0	2.0	0.029	<2.0	82.0
438	FS-149	5.0	<0.2	<2.0	76.0	6.86	<1.0	<1.0	2.0	0.025	<2.0	74.0
439	FS-150	<1.0	<0.2	<2.0	117.0	6.43	<1.0	<1.0	<2.0	0.029	<2.0	76.0
440	FS-151	34.0	<0.2	<2.0	173.0	9.06	<1.0	<1.0	<2.0	0.021	<2.0	58.0
441	FS-152	2.0	<0.2	<2.0	159.0	8.56	<1.0	<1.0	<2.0	0.023	<2.0	40.0
442	FS-153	<1.0	<0.2	<2.0	116.0	9.22	<1.0	<1.0	<2.0	0.027	<2.0	84.0
443	FS-154	120.0	<0.2	<2.0	94.0	7.06	<1.0	<1.0	<2.0	0.032	<2.0	66.0
444	FS-155	40.0	<0.2	<2.0	95.0	12.65	<1.0	<1.0	<2.0	0.029	2.0	60.0
445	FS-156	2.0	<0.2	<2.0	107.0	9.09	<1.0	<1.0	<2.0	0.031	<2.0	66.0
446	FS-157	121.0	<0.2	<2.0	115.0	8.21	<1.0	<1.0	<2.0	0.021	<2.0	48.0
447	FS-158	177.0	<0.2	<2.0	106.0	8.91	<1.0	<1.0	<2.0	0.029	<2.0	62.0
448	FS-159	667.0	<0.2	<2.0	126.0	8.15	<1.0	<1.0	<2.0	0.031	<2.0	72.0
449	FS-160	74.0	<0.2	<2.0	115.0	7.54	<1.0	<1.0	<2.0	0.034	<2.0	76.0
450	FS-161	19.0	<0.2	<2.0	83.0	6.69	<1.0	<1.0	<2.0	0.027	2.0	56.0
451	GS-001	4.0	0.2	16.0	117.0	8.08	<1.0	1.0	4.0	<0.001	2.0	100.0
452	GS-002	<1.0	0.4	12.0	125.0	6.48	<1.0	<1.0	<2.0	<0.001	<2.0	94.0
453	GS-003	3.0	0.4	14.0	117.0	6.33	<1.0	<1.0	<2.0	<0.001	<2.0	92.0
454	GS-004	<1.0	0.4	18.0	112.0	6.34	<1.0	<1.0	4.0	<0.001	<2.0	92.0
455	GS-005	<1.0	0.4	14.0	120.0	5.93	<1.0	<1.0	<2.0	<0.001	<2.0	94.0
456	GS-006	5.0	0.4	6.0	118.0	6.29	<1.0	<1.0	<2.0	<0.001	<2.0	90.0
457	GS-007	<1.0	0.2	6.0	106.0	6.30	<1.0	<1.0	<2.0	<0.001	<2.0	84.0
458	GS-008	<1.0	0.2	8.0	117.0	6.28	<1.0	<1.0	<2.0	0.002	<2.0	88.0
459	GS-009	<1.0	0.2	64.0	141.0	5.73	<1.0	1.0	4.0	0.018	<2.0	150.0
460	GS-010	<1.0	0.4	4.0	111.0	6.13	1.0	1.0	4.0	<0.001	<2.0	72.0
461	GS-011	1.0	0.4	<2.0	112.0	6.65	<1.0	<1.0	<2.0	<0.001	<2.0	64.0
462	GS-012	1.0	0.2	64.0	137.0	6.14	<1.0	1.0	4.0	<0.001	<2.0	122.0
463	GS-013	<1.0	0.4	88.0	153.0	6.68	<1.0	1.0	2.0	<0.001	<2.0	136.0
464	GS-014	<1.0	0.2	<2.0	105.0	6.14	<1.0	<1.0	<2.0	0.008	<2.0	72.0
465	GS-015	<1.0	0.2	<2.0	93.0	5.52	<1.0	<1.0	<2.0	0.005	<2.0	64.0
466	GS-016	116.0	0.2	<2.0	94.0	6.56	<1.0	<1.0	<2.0	0.001	<2.0	60.0
467	GS-017	1.0	0.2	2.0	74.0	5.56	<1.0	<1.0	<2.0	0.001	<2.0	60.0
468	GS-018	<1.0	<0.2	6.0	68.0	5.44	<1.0	<1.0	<2.0	<0.001	<2.0	54.0
469	GS-019	<1.0	0.2	4.0	80.0	5.23	<1.0	<1.0	<2.0	<0.001	<2.0	64.0
470	GS-020	1.0	0.2	10.0	76.0	6.02	<1.0	1.0	<2.0	<0.001	<2.0	54.0
471	GS-021	8.0	<0.2	12.0	58.0	4.97	<1.0	<1.0	<2.0	0.008	<2.0	64.0
472	GS-022	<1.0	0.2	6.0	65.0	5.57	<1.0	<1.0	<2.0	0.007	<2.0	58.0
473	GS-023	<1.0	<0.2	4.0	89.0	5.19	<1.0	<1.0	<2.0	<0.001	<2.0	54.0
474	GS-024	2.0	<0.2	26.0	178.0	6.66	<1.0	1.0	4.0	<0.001	<2.0	162.0
475	GS-025	1.0	0.2	<2.0	120.0	6.38	<1.0	<1.0	<2.0	<0.001	<2.0	88.0
476	GS-026	20.0	0.2	6.0	96.0	6.87	<1.0	<1.0	<2.0	<0.001	<2.0	74.0
477	GS-027	58.0	0.2	6.0	95.0	7.18	<1.0	<1.0	<2.0	<0.001	<2.0	92.0
478	GS-028	<1.0	0.2	4.0	107.0	7.06	<1.0	<1.0	2.0	<0.001	<2.0	82.0
479	GS-029	257.0	0.2	<2.0	98.0	7.12	<1.0	<1.0	<2.0	<0.001	<2.0	80.0
480	GS-030	4.0	<0.2	18.0	101.0	7.89	<1.0	1.0	2.0	<0.001	2.0	78.0
481	GS-031	<1.0	0.2	2.0	96.0	8.62	<1.0	<1.0	<2.0	<0.001	<2.0	72.0
482	GS-032	<1.0	0.2	2.0	108.0	7.62	<1.0	<1.0	<2.0	<0.001	<2.0	88.0
483	GS-033	<1.0	0.2	<2.0	131.0	6.05	<1.0	<1.0	<2.0	<0.001	<2.0	98.0
484	GS-034	<1.0	0.2	6.0	92.0	7.95	<1.0	<1.0	<2.0	<0.001	<2.0	72.0
485	GS-035	<1.0	<0.2	8.0	120.0	6.60	<1.0	<1.0	<2.0	<0.001	<2.0	86.0
486	GS-036	6.0	0.2	<2.0	147.0	6.51	<1.0	<1.0	<2.0	<0.001	<2.0	90.0
487	GS-037	312.0	0.2	4.0	148.0	7.13	<1.0	<1.0	<2.0	<0.001	<2.0	92.0
488	GS-038	12.0	<0.2	8.0	81.0	13.15	<1.0	<1.0	<2.0	<0.001	<2.0	56.0
489	GS-039	2.0	<0.2	14.0	134.0	6.74	<1.0	<1.0	<2.0	0.006	<2.0	70.0
490	GS-040	<1.0	0.2	<2.0	114.0	6.55	<1.0	<1.0	<2.0	0.009	<2.0	86.0
491	GS-041	1020.0	0.6	<2.0	87.0	7.74	<1.0	<1.0	<2.0	<0.001	<2.0	90.0
492	GS-042	349.0	0.6	4.0	95.0	6.76	<1.0	<1.0	<2.0	<0.001	<2.0	94.0
493	GS-043	208.0	0.6	6.0	95.0	7.01	<1.0	<1.0	<2.0	<0.001	<2.0	96.0
494	GS-044	13.0	0.6	<2.0	100.0	7.29	<1.0	<1.0	<2.0	<0.001	<2.0	92.0
495	GS-045	580.0	0.4	4.0	84.0	6.25	<1.0	<1.0	<2.0	<0.001	<2.0	86.0
496	GS-046	11.0	0.6	<2.0	77.0	6.37	<1.0	<1.0	<2.0	<0.001	<2.0	70.0
497	GS-047	6.0	0.6	6.0	101.0	6.52	<1.0	<1.0	<2.0	<0.001	<2.0	94.0
498	GS-048	<1.0	0.4	14.0	94.0	6.78	<1.0	1.0	<2.0	<0.001	<2.0	108.0
499	GS-049	<1.0	0.4	8.0	101.0	6.50	<1.0	1.0	<2.0	0.017	<2.0	126.0
500	GS-050	<1.0	0.4	<2.0	78.0	7.14	<1.0	<1.0	<2.0	0.003	<2.0	92.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (6)

No.	Element	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S %	Sb	Zn
	Units	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	Total	ppm	ppm
501	GS-051	1.0	0.4	<2.0	90.0	6.91	<1.0	<1.0	<2.0	0.010	<2.0	106.0
502	GS-052	<1.0	0.4	6.0	83.0	7.29	<1.0	<1.0	<2.0	0.014	<2.0	98.0
503	GS-053	1.0	0.4	6.0	143.0	6.86	<1.0	1.0	2.0	<0.001	<2.0	114.0
504	GS-054	25.0	0.4	6.0	91.0	7.67	<1.0	<1.0	<2.0	<0.001	<2.0	100.0
505	GS-055	<1.0	0.4	<2.0	92.0	5.85	<1.0	<1.0	<2.0	<0.001	<2.0	108.0
506	GS-056	<1.0	0.4	<2.0	86.0	5.42	<1.0	<1.0	<2.0	<0.001	<2.0	106.0
507	GS-057	535.0	0.4	8.0	133.0	7.20	<1.0	1.0	<2.0	<0.001	<2.0	116.0
508	GS-058	2.0	0.4	<2.0	113.0	6.55	<1.0	<1.0	<2.0	<0.001	<2.0	106.0
459	GS-059	2.0	0.2	6.0	128.0	7.58	<1.0	<1.0	<2.0	0.004	<2.0	108.0
510	GS-060	1330.0	0.2	2.0	95.0	8.44	<1.0	<1.0	<2.0	0.012	<2.0	102.0
511	GS-061	8.0	0.4	8.0	98.0	6.30	<1.0	<1.0	<2.0	0.003	<2.0	100.0
512	GS-062	21.0	0.6	2.0	128.0	7.92	<1.0	<1.0	<2.0	0.014	<2.0	104.0
513	GS-063	2.0	0.4	4.0	111.0	8.15	<1.0	<1.0	<2.0	0.003	<2.0	100.0
514	GS-064	<1.0	0.6	10.0	133.0	7.18	<1.0	<1.0	<2.0	0.014	<2.0	112.0
515	GS-065	22.0	0.6	<2.0	131.0	5.43	<1.0	<1.0	4.0	0.013	<2.0	104.0
516	GS-066	1.0	0.6	<2.0	107.0	8.30	<1.0	<1.0	<2.0	0.003	<2.0	108.0
517	GS-067	1.0	0.6	<2.0	77.0	6.76	<1.0	<1.0	<2.0	<0.001	<2.0	70.0
518	GS-068	11.0	0.6	8.0	145.0	6.97	<1.0	<1.0	<2.0	0.008	<2.0	116.0
519	GS-069	66.0	0.4	6.0	124.0	6.66	<1.0	<1.0	<2.0	0.006	<2.0	112.0
520	GS-070	4.0	0.4	8.0	126.0	7.35	<1.0	<1.0	<2.0	0.004	<2.0	114.0
521	GS-071	2.0	0.4	6.0	143.0	7.21	<1.0	<1.0	<2.0	<0.001	<2.0	124.0
522	GS-072	2.0	0.4	2.0	120.0	6.47	<1.0	<1.0	<2.0	<0.001	<2.0	102.0
523	GS-073	345.0	0.4	<2.0	122.0	6.43	<1.0	<1.0	<2.0	<0.001	<2.0	98.0
524	GS-074	2.0	0.4	8.0	146.0	6.71	<1.0	1.0	<2.0	<0.001	<2.0	112.0
525	GS-075	5.0	0.4	<2.0	112.0	5.87	<1.0	<1.0	<2.0	<0.001	<2.0	92.0
526	GS-076	4.0	0.4	32.0	122.0	6.35	<1.0	<1.0	<2.0	<0.001	4.0	100.0
527	GS-077	3.0	0.4	6.0	124.0	6.16	<1.0	<1.0	<2.0	<0.001	<2.0	100.0
528	GS-078	<1.0	0.4	34.0	149.0	5.74	<1.0	<1.0	2.0	<0.001	<2.0	128.0
529	GS-079	1.0	0.2	30.0	150.0	7.12	<1.0	<1.0	<2.0	<0.001	<2.0	114.0
530	GS-080	59.0	0.8	18.0	131.0	6.77	<1.0	<1.0	<2.0	<0.001	<2.0	94.0
531	GS-081	697.0	<0.2	12.0	127.0	6.23	2.0	<1.0	2.0	0.001	<2.0	94.0
532	GS-082	13.0	0.2	2.0	141.0	6.85	4.0	1.0	8.0	0.012	4.0	110.0
533	GS-083	7.0	0.2	<2.0	124.0	6.08	<1.0	<1.0	6.0	0.002	2.0	98.0
534	GS-084	<1.0	0.2	4.0	84.0	8.24	<1.0	<1.0	8.0	0.003	4.0	80.0
535	GS-085	<1.0	0.2	4.0	94.0	6.04	1.0	<1.0	4.0	<0.001	4.0	82.0
536	GS-086	<1.0	0.2	<2.0	85.0	5.26	<1.0	<1.0	6.0	<0.001	<2.0	80.0
537	GS-087	<1.0	0.2	<2.0	78.0	5.53	1.0	<1.0	4.0	0.002	2.0	84.0
538	GS-088	79.0	0.2	<2.0	96.0	5.99	1.0	<1.0	6.0	0.002	<2.0	100.0
539	GS-089	32.0	0.2	<2.0	63.0	5.04	1.0	<1.0	2.0	0.002	2.0	84.0
540	GS-090	3.0	0.2	2.0	130.0	6.34	<1.0	<1.0	8.0	0.002	2.0	92.0
541	GS-091	<1.0	0.2	<2.0	90.0	5.65	3.0	<1.0	6.0	<0.001	<2.0	84.0
542	GS-092	1.0	0.4	<2.0	90.0	5.49	1.0	<1.0	12.0	<0.001	2.0	88.0
543	GS-093	97.0	0.2	<2.0	89.0	5.57	1.0	<1.0	6.0	0.002	2.0	84.0
544	GS-094	82.0	<0.2	<2.0	79.0	5.54	<1.0	<1.0	6.0	0.004	2.0	78.0
545	GS-095	77.0	0.2	14.0	84.0	5.36	2.0	<1.0	4.0	0.003	2.0	90.0
546	GS-096	2.0	0.2	6.0	93.0	5.62	<1.0	<1.0	6.0	0.002	<2.0	80.0
547	GS-097	<1.0	0.4	4.0	166.0	7.70	<1.0	<1.0	8.0	0.003	<2.0	120.0
548	GS-098	6.0	0.2	2.0	125.0	5.73	1.0	<1.0	12.0	<0.001	4.0	92.0
549	GS-099	1.0	0.2	<2.0	137.0	9.54	<1.0	<1.0	12.0	<0.001	6.0	112.0
550	GS-100	108.0	0.2	8.0	141.0	9.83	<1.0	<1.0	8.0	0.004	4.0	122.0
551	GS-101	40.0	<0.2	<2.0	141.0	12.90	<1.0	<1.0	8.0	0.001	6.0	120.0
552	GS-102	8.0	0.2	4.0	151.0	9.73	2.0	<1.0	10.0	<0.001	2.0	114.0
553	GS-103	1.0	<0.2	<2.0	139.0	>15.00	<1.0	<1.0	18.0	<0.001	4.0	116.0
554	GS-104	50.0	0.2	<2.0	142.0	10.65	<1.0	<1.0	12.0	<0.001	6.0	110.0
555	GS-105	6.0	0.2	6.0	168.0	9.41	1.0	<1.0	12.0	<0.001	<2.0	128.0
556	GS-106	8.0	<0.2	2.0	123.0	>15.00	<1.0	<1.0	14.0	<0.001	8.0	122.0
557	GS-107	<1.0	0.2	<2.0	103.0	7.69	<1.0	<1.0	8.0	0.002	4.0	88.0
558	GS-108	1.0	0.2	2.0	112.0	6.98	1.0	<1.0	4.0	0.004	2.0	98.0
559	GS-109	23.0	0.2	4.0	85.0	7.09	<1.0	<1.0	12.0	0.002	4.0	84.0
560	GS-110	<1.0	0.2	<2.0	107.0	5.55	<1.0	<1.0	8.0	0.002	2.0	90.0
561	GS-111	1.0	0.2	<2.0	89.0	5.13	<1.0	<1.0	6.0	0.012	<2.0	80.0
562	GS-112	<1.0	0.2	<2.0	92.0	5.42	1.0	<1.0	8.0	0.016	<2.0	82.0
563	GS-113	2.0	0.2	12.0	107.0	8.73	<1.0	<1.0	10.0	0.020	2.0	94.0
564	GS-114	<1.0	0.2	6.0	88.0	4.87	2.0	<1.0	6.0	0.018	<2.0	84.0
565	GS-115	<1.0	0.2	6.0	135.0	6.07	1.0	<1.0	6.0	0.003	4.0	84.0
566	GS-116	1.0	0.2	2.0	101.0	6.62	<1.0	<1.0	6.0	0.002	2.0	92.0
567	GS-117	<1.0	0.2	<2.0	117.0	5.53	2.0	<1.0	8.0	0.005	2.0	90.0
568	GS-118	<1.0	0.2	<2.0	99.0	5.58	<1.0	<1.0	6.0	0.002	2.0	84.0
569	HS-001	3.0	0.2	18.0	172.0	8.32	<1.0	<1.0	12.0	0.002	4.0	86.0
570	HS-002	1.0	0.2	<2.0	176.0	7.43	2.0	<1.0	8.0	<0.001	<2.0	118.0
571	HS-003	<1.0	<0.2	8.0	171.0	8.09	1.0	1.0	14.0	<0.001	4.0	102.0
572	HS-004	1.0	0.2	4.0	188.0	8.62	<1.0	<1.0	14.0	<0.001	4.0	118.0
573	HS-005	<1.0	0.2	<2.0	178.0	8.53	1.0	<1.0	10.0	<0.001	4.0	116.0
574	HS-006	2.0	0.2	4.0	170.0	8.05	<1.0	<1.0	6.0	<0.001	2.0	110.0
575	HS-007	1.0	<0.2	<2.0	115.0	14.15	<1.0	<1.0	8.0	<0.001	4.0	96.0
576	HS-008	<1.0	<0.2	<2.0	146.0	8.15	1.0	<1.0	8.0	<0.001	<2.0	108.0
577	HS-009	<1.0	0.2	2.0	171.0	7.32	2.0	<1.0	14.0	<0.001	6.0	134.0
578	HS-010	<1.0	0.2	<2.0	154.0	7.59	3.0	<1.0	6.0	<0.001	2.0	108.0
579	HS-011	13.0	<0.2	2.0	123.0	10.40	<1.0	<1.0	12.0	<0.001	2.0	100.0
580	HS-012	3.0	<0.2	<2.0	140.0	8.32	1.0	<1.0	14.0	<0.001	2.0	102.0
581	HS-013	328.0	<0.2	<2.0	104.0	11.65	<1.0	<1.0	12.0	<0.001	2.0	100.0
582	HS-014	5.0	<0.2	2.0	92.0	12.05	<1.0	<1.0	6.0	<0.001	6.0	96.0
583	HS-015	1.0	<0.2	4.0	132.0	9.51	<1.0	<1.0	12.0	0.006	2.0	96.0
584	HS-016	<1.0	0.2	18.0	153.0	7.39	2.0	<1.0	14.0	<0.001	2.0	132.0
585	HS-017	<1.0	<0.2	4.0	164.0	7.98	1.0	<1.0	4.0	<0.001	2.0	108.0
586	HS-018	<1.0	0.2	10.0	156.0	7.47	2.0	1.0	8.0	<0.001	4.0	114.0
587	HS-019	6.0	0.2	<2.0	160.0	8.10	<1.0	<1.0	4.0	<0.001	4.0	134.0
588	HS-020	1.0	0.2	4.0	150.0	7.20	<1.0	<1.0	4.0	<0.001	<2.0	104.0
589	HS-021	1.0	0.4	2.0	150.0	7.47	1.0	<1.0	6.0	<0.001	2.0	100.0
590	HS-022	<1.0	0.2	<2.0	141.0	7.22	1.0	<1.0	8.0	<0.001	2.0	112.0
591	HS-023	<1.0	0.2	4.0	136.0	8.75	1.0	<1.0	16.0	0.006	2.0	104.0
592	HS-024	302.0	<0.2	<2.0	89.0	11.45	<1.0	<1.0	10.0	0.007	4.0	98.0
593	HS-025	3.0	0.2	2.0	94.0	9.38	<1.0	<1.0	2.0	0.003	6.0	94.0
594	HS-026	<1.0	<0.2	<2.0	91.0	8.74	1.0	<1.0	4.0	<0.001	2.0	80.0
595	HS-027	72.0	0.2	<2.0	97.0	8.27	<1.0	<1.0	10.0	<0.001	4.0	84.0
596	HS-028	74.0	<0.2	2.0	118.0	8.68	<1.0	<1.0	8.0	<0.001	6.0	94.0
597	HS-029	4.0	0.2	2.0	117.0	8.48	3.0	<1.0	6.0	<0.001	2.0	98.0
598	HS-030	1.0	0.2	<2.0	102.0	7.93	2.0	<1.0	6.0	0.001	<2.0	94.0
599	HS-031	<1.0	0.2	<2.0	89.0	10.20	<1.0	<1.0	10.0	0.002	4.0	84.0
600	HS-032	1.0	<0.2	<2.0	93.0	10.45	1.0	<1.0	14.0	0.002	2.0	88.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (7)

No.	Element / Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
601	HS-033	4.0	0.2	<2.0	129.0	7.79	2.0	<1.0	4.0	0.007	4.0	106.0
602	HS-034	4.0	0.2	12.0	109.0	7.30	4.0	<1.0	10.0	<0.001	2.0	86.0
603	HS-035	2.0	0.2	6.0	126.0	6.97	2.0	<1.0	12.0	0.001	<2.0	98.0
604	HS-036	<1.0	0.2	<2.0	113.0	7.44	1.0	<1.0	12.0	0.008	2.0	92.0
605	HS-037	1.0	0.2	<2.0	127.0	6.80	1.0	<1.0	4.0	<0.001	2.0	98.0
606	HS-038	93.0	0.2	6.0	118.0	6.89	1.0	<1.0	10.0	<0.001	4.0	90.0
607	HS-039	2.0	0.2	10.0	133.0	8.37	<1.0	<1.0	18.0	0.006	<2.0	128.0
608	HS-040	1.0	0.2	8.0	130.0	7.66	1.0	1.0	12.0	<0.001	4.0	130.0
609	HS-041	<1.0	0.2	6.0	139.0	7.70	1.0	<1.0	18.0	0.013	2.0	130.0
610	HS-042	2.0	0.2	2.0	140.0	7.94	3.0	<1.0	16.0	0.007	<2.0	134.0
611	HS-043	9.0	0.2	10.0	144.0	7.52	3.0	<1.0	12.0	<0.001	4.0	134.0
612	HS-044	<1.0	0.2	4.0	138.0	8.44	<1.0	<1.0	22.0	<0.001	2.0	136.0
613	HS-045	14.0	0.2	<2.0	122.0	7.01	2.0	<1.0	8.0	<0.001	<2.0	106.0
614	HS-046	<1.0	0.2	<2.0	130.0	8.35	1.0	<1.0	8.0	<0.001	2.0	114.0
615	HS-047	<1.0	0.2	<2.0	125.0	6.64	2.0	<1.0	6.0	<0.001	2.0	104.0
616	HS-048	8.0	0.2	<2.0	138.0	5.04	1.0	<1.0	6.0	0.003	<2.0	86.0
617	HS-049	<1.0	0.2	<2.0	138.0	4.98	<1.0	<1.0	4.0	<0.001	2.0	86.0
618	HS-050	<1.0	1.2	4.0	117.0	7.06	<1.0	<1.0	8.0	0.008	2.0	96.0
619	HS-051	<1.0	0.2	4.0	127.0	6.62	<1.0	<1.0	6.0	0.006	4.0	106.0
620	HS-052	168.0	0.2	<2.0	147.0	8.46	<1.0	<1.0	6.0	0.001	4.0	92.0
621	HS-053	1010.0	0.4	<2.0	131.0	9.22	<1.0	<1.0	12.0	<0.001	6.0	94.0
622	HS-054	35.0	0.2	<2.0	144.0	8.87	<1.0	<1.0	10.0	<0.001	<2.0	104.0
623	HS-055	<1.0	0.2	<2.0	131.0	8.70	<1.0	<1.0	4.0	<0.001	6.0	98.0
624	HS-056	<1.0	0.2	<2.0	142.0	9.04	1.0	<1.0	8.0	<0.001	2.0	104.0
625	HS-057	1.0	0.4	<2.0	155.0	6.80	1.0	<1.0	14.0	<0.001	4.0	100.0
626	HS-058	2.0	0.2	2.0	166.0	6.74	<1.0	<1.0	10.0	<0.001	2.0	106.0
627	HS-059	4.0	0.2	<2.0	166.0	6.90	<1.0	<1.0	8.0	<0.001	4.0	106.0
628	HS-060	152.0	<0.2	2.0	124.0	>15.00	<1.0	<1.0	12.0	<0.001	8.0	104.0
629	HS-061	137.0	0.2	<2.0	139.0	6.57	2.0	<1.0	4.0	<0.001	<2.0	106.0
630	HS-062	4.0	0.2	<2.0	129.0	6.39	<1.0	<1.0	8.0	<0.001	2.0	98.0
631	HS-063	110.0	0.2	4.0	138.0	6.90	1.0	<1.0	8.0	<0.001	4.0	110.0
632	HS-064	760.0	<0.2	<2.0	116.0	13.80	<1.0	<1.0	12.0	<0.001	8.0	96.0
633	HS-065	2240.0	<0.2	4.0	115.0	10.15	<1.0	<1.0	10.0	<0.001	4.0	96.0
634	HS-066	54.0	0.2	8.0	134.0	10.20	<1.0	<1.0	6.0	<0.001	8.0	114.0
635	HS-067	55.0	0.2	<2.0	135.0	9.29	<1.0	<1.0	8.0	<0.001	2.0	102.0
636	HS-068	1.0	0.2	2.0	128.0	10.35	<1.0	<1.0	8.0	0.003	4.0	110.0
637	HS-069	2.0	<0.2	<2.0	116.0	13.70	<1.0	<1.0	10.0	<0.001	8.0	100.0
638	HS-070	2.0	0.2	<2.0	234.0	11.00	1.0	<1.0	12.0	<0.001	4.0	170.0
639	HS-071	3.0	0.2	4.0	176.0	10.15	2.0	<1.0	10.0	<0.001	<2.0	150.0
640	HS-072	9.0	0.4	12.0	214.0	13.55	2.0	<1.0	18.0	<0.001	6.0	192.0
641	HS-073	1200.0	0.4	6.0	190.0	13.30	<1.0	<1.0	20.0	<0.001	6.0	162.0
642	HS-074	19.0	0.2	8.0	115.0	10.30	1.0	<1.0	14.0	<0.001	8.0	88.0
643	HS-075	2.0	0.2	16.0	163.0	11.55	<1.0	<1.0	10.0	<0.001	4.0	120.0
644	HS-076	<1.0	0.2	<2.0	19.0	8.68	<1.0	<1.0	6.0	<0.001	4.0	34.0
645	HS-077	50.0	0.2	<2.0	182.0	11.40	<1.0	<1.0	8.0	<0.001	4.0	134.0
646	HS-078	35.0	0.2	<2.0	352.0	>15.00	<1.0	<1.0	8.0	<0.001	8.0	170.0
647	HS-079	3.0	0.2	<2.0	164.0	7.14	<1.0	<1.0	8.0	<0.001	6.0	104.0
648	HS-080	8.0	0.2	2.0	155.0	6.61	<1.0	<1.0	10.0	<0.001	6.0	98.0
649	HS-081	6.0	0.4	<2.0	134.0	6.49	<1.0	<1.0	4.0	<0.001	2.0	92.0
650	HS-082	2.0	0.2	2.0	133.0	6.19	<1.0	<1.0	4.0	<0.001	2.0	88.0
651	HS-083	5.0	<0.2	6.0	137.0	11.40	<1.0	<1.0	2.0	<0.001	8.0	126.0
652	HS-084	8.0	0.2	8.0	160.0	10.75	2.0	<1.0	10.0	<0.001	4.0	156.0
653	HS-085	2.0	0.2	<2.0	163.0	11.05	<1.0	<1.0	16.0	<0.001	2.0	168.0
654	HS-086	525.0	<0.2	2.0	114.0	15.00	<1.0	<1.0	12.0	<0.001	10.0	134.0
655	HS-087	7.0	<0.2	<2.0	173.0	10.15	<1.0	<1.0	8.0	<0.001	2.0	146.0
656	HS-088	5.0	<0.2	4.0	151.0	11.65	<1.0	<1.0	14.0	<0.001	8.0	152.0
657	HS-089	4.0	<0.2	<2.0	182.0	8.45	<1.0	<1.0	8.0	<0.001	6.0	128.0
658	HS-090	8.0	<0.2	<2.0	191.0	9.64	<1.0	<1.0	18.0	<0.001	8.0	148.0
659	HS-091	8.0	<0.2	<2.0	148.0	7.77	<1.0	<1.0	12.0	<0.001	6.0	104.0
660	HS-092	32.0	<0.2	<2.0	98.0	>15.00	<1.0	<1.0	16.0	<0.001	8.0	100.0
661	HS-093	14.0	<0.2	<2.0	149.0	7.45	<1.0	<1.0	6.0	<0.001	2.0	122.0
662	HS-094	79.0	<0.2	<2.0	164.0	7.37	<1.0	<1.0	12.0	<0.001	2.0	128.0
663	HS-095	1330.0	<0.2	4.0	80.0	>15.00	<1.0	<1.0	12.0	<0.001	10.0	82.0
664	HS-096	10.0	<0.2	<2.0	91.0	11.75	<1.0	<1.0	12.0	<0.001	6.0	102.0
665	HS-097	<1.0	<0.2	<2.0	199.0	9.64	<1.0	<1.0	8.0	<0.001	6.0	120.0
666	HS-098	254.0	<0.2	<2.0	165.0	14.50	<1.0	<1.0	14.0	<0.001	12.0	190.0
667	HS-099	10.0	<0.2	4.0	157.0	13.50	<1.0	<1.0	14.0	<0.001	4.0	182.0
668	HS-100	197.0	<0.2	2.0	150.0	>15.00	<1.0	<1.0	20.0	<0.001	12.0	218.0
669	JS-001	<1.0	<0.2	6.0	99.0	9.30	<1.0	<1.0	<2.0	<0.001	6.0	90.0
570	JS-002	<1.0	<0.2	<2.0	104.0	9.16	<1.0	<1.0	<2.0	<0.001	6.0	92.0
671	JS-003	60.0	<0.2	8.0	107.0	10.15	<1.0	<1.0	<2.0	<0.001	12.0	94.0
672	JS-004	3.0	<0.2	8.0	110.0	8.10	<1.0	<1.0	<2.0	<0.001	4.0	98.0
673	JS-005	<1.0	<0.2	8.0	106.0	6.64	<1.0	<1.0	<2.0	<0.001	6.0	96.0
674	JS-006	<1.0	<0.2	<2.0	88.0	13.40	<1.0	<1.0	<2.0	<0.001	10.0	80.0
675	JS-007	3.0	<0.2	10.0	102.0	10.35	<1.0	<1.0	<2.0	<0.001	10.0	88.0
676	JS-008	1.0	<0.2	12.0	159.0	7.16	<1.0	1.0	<2.0	<0.001	6.0	114.0
677	JS-009	1.0	<0.2	<2.0	125.0	13.20	<1.0	<1.0	<2.0	<0.001	8.0	106.0
678	JS-010	9.0	<0.2	8.0	128.0	7.79	<1.0	<1.0	<2.0	<0.001	6.0	106.0
679	JS-011	<1.0	<0.2	12.0	89.0	8.03	<1.0	<1.0	<2.0	<0.001	8.0	94.0
680	JS-012	<1.0	<0.2	12.0	89.0	6.68	<1.0	1.0	<2.0	<0.001	6.0	104.0
681	JS-013	<1.0	<0.2	8.0	96.0	5.83	<1.0	<1.0	<2.0	<0.001	4.0	88.0
682	JS-014	1.0	<0.2	2.0	119.0	6.20	<1.0	<1.0	<2.0	<0.001	8.0	106.0
683	JS-015	2.0	<0.2	16.0	137.0	7.43	<1.0	<1.0	<2.0	<0.001	6.0	138.0
684	JS-016	3.0	<0.2	6.0	140.0	9.16	<1.0	<1.0	<2.0	<0.001	4.0	96.0
685	JS-017	1.0	<0.2	12.0	141.0	9.75	<1.0	<1.0	<2.0	<0.001	6.0	96.0
686	JS-018	2.0	<0.2	8.0	131.0	10.25	<1.0	<1.0	<2.0	<0.001	6.0	102.0
687	JS-019	139.0	<0.2	4.0	140.0	9.76	<1.0	1.0	<2.0	<0.001	6.0	106.0
688	JS-020	4.0	<0.2	6.0	133.0	7.70	<1.0	<1.0	<2.0	<0.001	4.0	96.0
689	JS-021	140.0	<0.2	8.0	93.0	10.05	<1.0	1.0	8.0	0.069	8.0	86.0
690	JS-022	3.0	0.2	12.0	91.0	6.94	<1.0	1.0	8.0	0.122	6.0	80.0
691	JS-023	1020.0	<0.2	4.0	93.0	>15.00	<1.0	<1.0	10.0	0.004	14.0	88.0
692	JS-024	10.0	<0.2	14.0	134.0	8.21	<1.0	<1.0	8.0	<0.001	6.0	92.0
693	JS-025	<1.0	<0.2	12.0	99.0	8.62	<1.0	<1.0	10.0	<0.001	2.0	108.0
694	JS-026	1.0	<0.2	16.0	91.0	7.33	<1.0	<1.0	14.0	<0.001	6.0	96.0
695	JS-027	<1.0	0.2	8.0	96.0	6.66	<1.0	<1.0	16.0	<0.001	4.0	86.0
696	JS-028	<1.0	0.2	<2.0	105.0	6.62	<1.0	<1.0	8.0	<0.001	4.0	88.0
697	JS-029	2.0	<0.2	8.0	105.0	6.66	<1.0	1.0	6.0	<0.001	8.0	100.0
698	JS-030	10.0	<0.2	2.0	121.0	7.68	<1.0	1.0	6.0	<0.001	6.0	100.0
699	JS-031	237.0	<0.2	22.0	121.0	8.71	<1.0	<1.0	14.0	<0.001	8.0	114.0
700	JS-032	1520.0	<0.2	22.0	113.0	12.30	<1.0	<1.0	8.0	<0.001	8.0	100.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (8)

No.	Element	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S %	Sb	Zn
	Units	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	Total	ppm	ppm
701	JS-033	140.0	<0.2	12.0	119.0	7.41	<1.0	<1.0	8.0	<0.001	2.0	92.0
702	JS-034	900.0	<0.2	16.0	121.0	7.24	<1.0	<1.0	4.0	<0.001	4.0	86.0
703	JS-035	2.0	<0.2	12.0	121.0	7.41	<1.0	<1.0	14.0	<0.001	4.0	102.0
704	JS-036	20.0	<0.2	6.0	120.0	7.46	<1.0	<1.0	6.0	<0.001	4.0	102.0
705	JS-037	2.0	<0.2	12.0	116.0	7.39	<1.0	<1.0	10.0	<0.001	6.0	94.0
706	JS-038	<1.0	<0.2	12.0	95.0	11.85	<1.0	<1.0	16.0	<0.001	10.0	100.0
707	JS-039	1.0	<0.2	10.0	126.0	7.59	<1.0	<1.0	10.0	<0.001	2.0	102.0
708	JS-040	3.0	0.2	8.0	116.0	7.89	<1.0	<1.0	8.0	<0.001	6.0	90.0
709	JS-041	10.0	<0.2	14.0	128.0	7.70	<1.0	<1.0	12.0	<0.001	4.0	104.0
710	JS-042	6460.0	<0.2	8.0	123.0	8.81	<1.0	<1.0	16.0	<0.001	4.0	120.0
711	JS-043	57.0	<0.2	12.0	109.0	7.30	<1.0	<1.0	16.0	<0.001	4.0	100.0
712	JS-044	1030.0	<0.2	16.0	113.0	8.30	<1.0	<1.0	16.0	<0.001	6.0	118.0
713	JS-045	13.0	<0.2	22.0	132.0	7.42	<1.0	<1.0	12.0	<0.001	4.0	116.0
714	JS-046	35.0	<0.2	20.0	119.0	7.99	<1.0	<1.0	12.0	<0.001	6.0	110.0
715	JS-047	1.0	<0.2	18.0	128.0	6.87	<1.0	<1.0	10.0	<0.001	2.0	108.0
716	JS-048	35.0	<0.2	22.0	122.0	8.99	<1.0	<1.0	16.0	<0.001	4.0	126.0
717	JS-049	15.0	<0.2	10.0	133.0	9.97	<1.0	<1.0	20.0	<0.001	10.0	130.0
718	JS-050	3310.0	1.6	<2.0	89.0	6.57	<1.0	<1.0	18.0	<0.001	2.0	122.0
719	JS-051	1070.0	<0.2	16.0	143.0	9.38	<1.0	<1.0	14.0	<0.001	2.0	108.0
720	JS-052	1520.0	0.2	2.0	130.0	11.15	<1.0	<1.0	14.0	<0.001	8.0	100.0
721	JS-053	1750.0	<0.2	18.0	129.0	8.83	<1.0	<1.0	8.0	<0.001	6.0	112.0
722	JS-054	17.0	0.2	6.0	129.0	10.00	<1.0	<1.0	14.0	<0.001	4.0	122.0
723	JS-055	305.0	0.2	8.0	133.0	9.48	<1.0	<1.0	14.0	<0.001	6.0	128.0
724	JS-056	378.0	<0.2	4.0	128.0	12.85	<1.0	<1.0	8.0	<0.001	6.0	102.0
725	JS-057	1390.0	<0.2	8.0	132.0	10.40	<1.0	<1.0	18.0	<0.001	8.0	106.0
726	JS-058	255.0	<0.2	<2.0	157.0	>15.00	<1.0	<1.0	20.0	<0.001	18.0	114.0
727	JS-059	10.0	<0.2	<2.0	118.0	>15.00	<1.0	<1.0	26.0	<0.001	18.0	104.0
728	JS-060	88.0	<0.2	<2.0	128.0	>15.00	<1.0	<1.0	22.0	<0.001	16.0	98.0
729	JS-061	385.0	<0.2	<2.0	86.0	>15.00	<1.0	<1.0	20.0	<0.001	12.0	100.0
730	JS-062	110.0	<0.2	6.0	113.0	>15.00	<1.0	<1.0	20.0	<0.001	14.0	106.0
731	JS-063	1430.0	0.2	6.0	131.0	13.25	<1.0	<1.0	14.0	<0.001	8.0	100.0
732	JS-064	850.0	<0.2	6.0	128.0	12.50	<1.0	<1.0	12.0	<0.001	8.0	98.0
733	JS-065	201.0	0.2	<2.0	130.0	12.55	<1.0	<1.0	14.0	<0.001	8.0	100.0
734	JS-066	1460.0	<0.2	4.0	115.0	10.05	<1.0	<1.0	10.0	0.015	8.0	102.0
735	JS-067	17.0	0.2	4.0	109.0	8.01	<1.0	<1.0	8.0	<0.001	6.0	100.0
736	JS-068	1450.0	<0.2	<2.0	116.0	9.26	<1.0	<1.0	6.0	0.005	6.0	102.0
737	JS-069	12.0	<0.2	2.0	102.0	11.80	<1.0	<1.0	14.0	<0.001	10.0	90.0
738	JS-070	18.0	<0.2	<2.0	112.0	8.57	<1.0	<1.0	4.0	<0.001	6.0	102.0
739	JS-071	<1.0	<0.2	6.0	124.0	14.25	<1.0	<1.0	8.0	<0.001	14.0	118.0
740	JS-072	17.0	<0.2	16.0	131.0	10.50	<1.0	<1.0	16.0	<0.001	8.0	112.0
741	JS-073	6.0	0.4	6.0	264.0	9.58	<1.0	<1.0	26.0	<0.001	8.0	192.0
742	JS-074	617.0	0.2	4.0	147.0	>15.00	<1.0	<1.0	12.0	<0.001	12.0	162.0
743	JS-075	1120.0	<0.2	6.0	163.0	15.00	<1.0	<1.0	16.0	<0.001	16.0	150.0
744	JS-076	12.0	0.2	2.0	125.0	8.87	<1.0	<1.0	8.0	<0.001	8.0	112.0
745	JS-077	1.0	<0.2	16.0	141.0	>15.00	<1.0	<1.0	14.0	<0.001	14.0	164.0
746	JS-078	160.0	0.2	16.0	173.0	12.80	<1.0	<1.0	18.0	<0.001	8.0	140.0
747	JS-079	3.0	<0.2	6.0	416.0	11.20	<1.0	<1.0	12.0	<0.001	8.0	156.0
748	JS-080	138.0	0.2	2.0	154.0	11.50	<1.0	<1.0	14.0	<0.001	6.0	136.0
749	JS-081	108.0	0.2	4.0	776.0	>15.00	<1.0	<1.0	14.0	<0.001	8.0	166.0
750	JS-082	8.0	0.2	10.0	149.0	12.50	<1.0	<1.0	12.0	<0.001	6.0	170.0
751	JS-083	2.0	<0.2	2.0	153.0	13.15	<1.0	<1.0	10.0	<0.001	10.0	184.0
752	JS-084	3.0	0.2	4.0	175.0	11.10	<1.0	<1.0	14.0	<0.001	8.0	158.0
753	JS-085	6.0	<0.2	4.0	215.0	14.85	<1.0	<1.0	14.0	<0.001	14.0	176.0
754	JS-086	2.0	<0.2	12.0	163.0	9.03	<1.0	<1.0	12.0	<0.001	4.0	120.0
755	JS-087	4.0	0.2	12.0	224.0	14.75	<1.0	<1.0	18.0	<0.001	12.0	174.0
756	JS-088	1.0	<0.2	12.0	148.0	13.30	<1.0	<1.0	6.0	<0.001	12.0	124.0
757	JS-089	225.0	<0.2	14.0	142.0	>15.00	<1.0	<1.0	16.0	<0.001	12.0	140.0
758	JS-090	45.0	0.2	<2.0	141.0	7.10	<1.0	<1.0	14.0	<0.001	6.0	124.0
759	JS-091	<1.0	0.2	4.0	111.0	11.95	<1.0	<1.0	6.0	<0.001	8.0	92.0
760	JS-092	1400.0	<0.2	2.0	116.0	>15.00	<1.0	<1.0	20.0	<0.001	16.0	164.0
761	JS-093	44.0	<0.2	18.0	86.0	>15.00	<1.0	<1.0	16.0	<0.001	16.0	94.0
762	JS-094	1280.0	<0.2	16.0	104.0	>15.00	<1.0	<1.0	24.0	<0.001	12.0	100.0
763	JS-095	856.0	<0.2	10.0	89.0	15.00	<1.0	<1.0	16.0	<0.001	10.0	86.0
764	JS-096	384.0	<0.2	4.0	87.0	14.30	<1.0	<1.0	14.0	<0.001	8.0	90.0
765	JS-097	354.0	<0.2	8.0	93.0	>15.00	<1.0	<1.0	14.0	<0.001	12.0	96.0
766	JS-098	183.0	<0.2	6.0	91.0	12.20	<1.0	<1.0	16.0	<0.001	14.0	92.0
767	JS-099	<1.0	<0.2	2.0	138.0	9.99	<1.0	<1.0	6.0	<0.001	8.0	110.0
768	JS-100	<1.0	<0.2	2.0	120.0	14.25	<1.0	<1.0	18.0	<0.001	12.0	100.0
769	JS-101	<1.0	0.2	4.0	247.0	9.52	<1.0	<1.0	6.0	0.002	6.0	132.0
770	JS-102	3.0	<0.2	14.0	162.0	12.30	<1.0	<1.0	16.0	<0.001	8.0	138.0
771	KS-001	<1.0	<0.2	6.0	121.0	8.45	<1.0	<1.0	8.0	<0.001	4.0	116.0
772	KS-002	1.0	<0.2	14.0	102.0	6.16	<1.0	<1.0	12.0	<0.001	6.0	112.0
773	KS-003	<1.0	<0.2	2.0	99.0	6.10	<1.0	<1.0	8.0	<0.001	<2.0	110.0
774	KS-004	<1.0	<0.2	12.0	106.0	6.42	<1.0	<1.0	8.0	<0.001	4.0	116.0
775	KS-005	<1.0	<0.2	14.0	123.0	8.07	<1.0	<1.0	14.0	<0.001	2.0	110.0
776	KS-006	1.0	<0.2	8.0	107.0	9.04	<1.0	<1.0	10.0	<0.001	8.0	118.0
777	KS-007	1.0	0.2	8.0	122.0	7.79	<1.0	<1.0	8.0	<0.001	2.0	128.0
778	KS-008	3.0	<0.2	2.0	105.0	7.97	<1.0	<1.0	8.0	<0.001	4.0	118.0
779	KS-009	<1.0	<0.2	8.0	103.0	8.08	<1.0	<1.0	8.0	<0.001	8.0	114.0
780	KS-010	7.0	0.2	10.0	131.0	6.39	<1.0	<1.0	4.0	<0.001	2.0	94.0
781	KS-011	<1.0	<0.2	8.0	124.0	8.51	<1.0	<1.0	8.0	<0.001	4.0	90.0
782	KS-012	8.0	0.2	2.0	125.0	8.05	<1.0	<1.0	8.0	<0.001	2.0	92.0
783	KS-013	<1.0	0.2	14.0	141.0	7.25	<1.0	<1.0	10.0	<0.001	4.0	102.0
784	KS-014	1.0	<0.2	12.0	138.0	7.33	<1.0	<1.0	10.0	<0.001	2.0	100.0
785	KS-015	10.0	<0.2	8.0	133.0	7.73	<1.0	<1.0	16.0	<0.001	4.0	96.0
786	KS-016	1.0	<0.2	10.0	131.0	7.24	<1.0	<1.0	8.0	<0.001	6.0	92.0
787	KS-017	3.0	<0.2	10.0	134.0	10.10	<1.0	<1.0	14.0	<0.001	8.0	86.0
788	KS-018	1.0	<0.2	6.0	131.0	8.95	<1.0	<1.0	14.0	<0.001	4.0	88.0
789	KS-019	<1.0	<0.2	6.0	135.0	6.23	<1.0	<1.0	14.0	<0.001	6.0	106.0
790	KS-020	1.0	<0.2	8.0	112.0	7.59	<1.0	<1.0	10.0	<0.001	4.0	92.0
791	KS-021	2.0	<0.2	2.0	115.0	7.74	<1.0	<1.0	12.0	<0.001	6.0	94.0
792	KS-022	<1.0	0.2	2.0	103.0	8.26	<1.0	<1.0	8.0	<0.001	6.0	84.0
793	KS-023	<1.0	<0.2	2.0	116.0	7.68	<1.0	<1.0	2.0	<0.001	6.0	90.0
794	KS-024	<1.0	<0.2	<2.0	119.0	8.23	<1.0	<1.0	10.0	<0.001	6.0	92.0
795	KS-025	<1.0	<0.2	2.0	97.0	6.14	<1.0	<1.0	6.0	<0.001	2.0	104.0
796	KS-026	<1.0	<0.2	2.0	101.0	9.21	<1.0	<1.0	12.0	<0.001	4.0	112.0
797	KS-027	<1.0	0.2	<2.0	100.0	7.78	<1.0	<1.0	8.0	<0.001	4.0	112.0
798	KS-028	<1.0	0.2	4.0	102.0	7.05	<1.0	<1.0	16.0	<0.001	6.0	100.0
799	KS-029	<1.0	<0.2	<2.0	101.0	7.17	<1.0	<1.0	8.0	<0.001	4.0	96.0
800	KS-030	2.0	<0.2	14.0	109.0	6.23	<1.0	1.0	8.0	<0.001	2.0	100.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (9)

No.	Element	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S %	Sb	Zn
	Units	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	Total	ppm	ppm
801	KS-031	<1.0	<0.2	6.0	100.0	6.44	<1.0	<1.0	8.0	<0.001	4.0	94.0
802	KS-032	2.0	<0.2	6.0	124.0	6.90	<1.0	<1.0	8.0	<0.001	4.0	92.0
803	KS-033	<1.0	0.2	12.0	151.0	6.24	<1.0	<1.0	10.0	<0.001	6.0	100.0
804	KS-034	<1.0	<0.2	8.0	146.0	6.00	<1.0	<1.0	12.0	<0.001	4.0	100.0
805	KS-035	3.0	<0.2	2.0	131.0	6.26	<1.0	<1.0	4.0	<0.001	4.0	94.0
806	KS-036	40.0	0.2	12.0	125.0	7.25	<1.0	<1.0	6.0	<0.001	4.0	94.0
807	KS-037	1.0	<0.2	<2.0	130.0	6.20	<1.0	<1.0	6.0	<0.001	2.0	96.0
808	KS-038	103.0	<0.2	12.0	125.0	7.10	<1.0	<1.0	8.0	<0.001	4.0	88.0
809	KS-039	<1.0	<0.2	2.0	116.0	8.46	<1.0	<1.0	8.0	0.001	6.0	100.0
810	KS-040	2.0	<0.2	6.0	131.0	6.46	<1.0	<1.0	12.0	<0.001	6.0	90.0
811	KS-041	1.0	<0.2	8.0	133.0	6.46	<1.0	<1.0	8.0	<0.001	4.0	92.0
812	KS-042	1.0	0.2	<2.0	139.0	6.73	<1.0	<1.0	10.0	<0.001	4.0	92.0
813	KS-043	1.0	<0.2	8.0	134.0	6.41	<1.0	<1.0	10.0	<0.001	4.0	90.0
814	KS-044	<1.0	<0.2	4.0	87.0	7.13	<1.0	<1.0	10.0	<0.001	2.0	86.0
815	KS-045	<1.0	0.2	4.0	82.0	7.13	<1.0	<1.0	8.0	<0.001	4.0	84.0
816	KS-046	<1.0	<0.2	6.0	83.0	5.76	<1.0	<1.0	6.0	<0.001	4.0	82.0
817	KS-047	<1.0	<0.2	6.0	80.0	5.89	<1.0	<1.0	6.0	<0.001	6.0	78.0
818	KS-048	<1.0	<0.2	18.0	96.0	7.02	<1.0	<1.0	8.0	<0.001	4.0	90.0
819	KS-049	<1.0	0.2	4.0	95.0	7.16	<1.0	<1.0	2.0	<0.001	4.0	88.0
820	KS-050	<1.0	<0.2	14.0	107.0	7.06	<1.0	<1.0	10.0	<0.001	4.0	96.0
821	KS-051	<1.0	<0.2	4.0	130.0	9.48	<1.0	<1.0	12.0	<0.001	6.0	92.0
822	KS-052	1.0	<0.2	16.0	130.0	10.10	<1.0	<1.0	12.0	<0.001	6.0	94.0
823	KS-053	<1.0	0.2	14.0	128.0	11.15	<1.0	<1.0	10.0	<0.001	10.0	88.0
824	KS-054	<1.0	<0.2	12.0	126.0	11.15	<1.0	<1.0	12.0	<0.001	6.0	90.0
825	KS-055	<1.0	<0.2	2.0	121.0	6.61	<1.0	<1.0	10.0	<0.001	4.0	98.0
826	KS-056	5.0	<0.2	4.0	106.0	5.56	<1.0	<1.0	12.0	<0.001	2.0	92.0
827	KS-057	<1.0	0.2	8.0	96.0	6.08	<1.0	<1.0	10.0	<0.001	4.0	94.0
828	KS-058	<1.0	<0.2	12.0	117.0	6.75	<1.0	<1.0	6.0	<0.001	2.0	98.0
829	KS-059	270.0	0.2	8.0	127.0	6.36	<1.0	<1.0	14.0	0.002	4.0	100.0
830	KS-060	<1.0	0.2	16.0	140.0	7.01	<1.0	<1.0	8.0	<0.001	4.0	104.0
831	KS-061	68.0	0.2	8.0	135.0	6.43	<1.0	<1.0	8.0	<0.001	6.0	100.0
832	KS-062	3.0	0.2	12.0	121.0	6.80	<1.0	<1.0	6.0	<0.001	2.0	100.0
833	KS-063	1630.0	<0.2	<2.0	116.0	8.41	<1.0	<1.0	12.0	<0.001	4.0	94.0
834	KS-064	60.0	<0.2	2.0	138.0	12.00	<1.0	<1.0	14.0	<0.001	8.0	112.0
835	KS-065	<1.0	<0.2	14.0	119.0	8.93	<1.0	<1.0	12.0	<0.001	6.0	100.0
836	KS-066	40.0	0.2	8.0	130.0	10.90	<1.0	<1.0	18.0	<0.001	4.0	112.0
837	KS-067	<1.0	<0.2	6.0	124.0	9.62	<1.0	<1.0	10.0	<0.001	6.0	110.0
838	KS-068	4.0	<0.2	4.0	109.0	7.57	<1.0	<1.0	10.0	<0.001	6.0	98.0
839	KS-069	1.0	<0.2	<2.0	105.0	8.82	<1.0	<1.0	6.0	<0.001	4.0	96.0
840	KS-070	7.0	<0.2	14.0	116.0	7.12	<1.0	<1.0	12.0	<0.001	6.0	100.0
841	KS-071	4.0	0.2	6.0	129.0	>15.00	<1.0	<1.0	20.0	0.001	12.0	120.0
842	KS-072	<1.0	<0.2	2.0	149.0	11.75	<1.0	<1.0	16.0	<0.001	10.0	116.0
843	KS-073	70.0	<0.2	8.0	169.0	12.10	<1.0	<1.0	10.0	<0.001	6.0	120.0
844	KS-074	2.0	0.2	10.0	165.0	10.80	<1.0	<1.0	16.0	<0.001	6.0	132.0
845	KS-075	<1.0	<0.2	10.0	151.0	10.55	<1.0	<1.0	14.0	<0.001	6.0	118.0
846	KS-076	7.0	<0.2	<2.0	155.0	10.45	<1.0	<1.0	20.0	<0.001	6.0	122.0
847	KS-077	2.0	<0.2	8.0	104.0	8.47	<1.0	<1.0	8.0	<0.001	6.0	88.0
848	KS-078	3.0	<0.2	<2.0	100.0	8.22	<1.0	<1.0	4.0	<0.001	6.0	84.0
849	KS-079	<1.0	<0.2	2.0	85.0	5.50	<1.0	<1.0	6.0	0.002	2.0	86.0
850	KS-080	1.0	0.2	12.0	121.0	6.97	<1.0	<1.0	10.0	0.002	4.0	108.0
851	KS-081	2.0	<0.2	<2.0	98.0	8.71	<1.0	<1.0	8.0	<0.001	6.0	80.0
852	KS-082	2.0	<0.2	2.0	95.0	6.11	<1.0	<1.0	8.0	<0.001	4.0	90.0
853	KS-083	1.0	0.2	12.0	94.0	6.11	<1.0	<1.0	10.0	<0.001	2.0	88.0
854	KS-084	3.0	<0.2	<2.0	92.0	8.15	<1.0	<1.0	8.0	<0.001	6.0	74.0
855	KS-085	10.0	<0.2	12.0	101.0	6.16	<1.0	<1.0	8.0	<0.001	4.0	94.0
856	KS-086	1.0	<0.2	8.0	95.0	8.05	<1.0	<1.0	8.0	<0.001	4.0	74.0
857	KS-087	135.0	<0.2	6.0	102.0	8.00	<1.0	<1.0	10.0	<0.001	6.0	90.0
858	KS-088	3.0	<0.2	10.0	151.0	11.30	<1.0	<1.0	8.0	<0.001	8.0	102.0
859	KS-089	<1.0	0.2	4.0	121.0	7.14	<1.0	<1.0	8.0	<0.001	8.0	92.0
860	KS-090	2.0	<0.2	2.0	127.0	7.47	<1.0	<1.0	6.0	<0.001	2.0	96.0
861	KS-091	6.0	<0.2	14.0	81.0	6.32	<1.0	<1.0	14.0	0.002	2.0	78.0
862	KS-092	7.0	<0.2	2.0	81.0	6.26	<1.0	<1.0	6.0	<0.001	8.0	78.0
863	KS-093	<1.0	<0.2	<2.0	78.0	6.26	<1.0	<1.0	8.0	<0.001	6.0	76.0
864	KS-094	8.0	<0.2	2.0	100.0	9.03	<1.0	<1.0	4.0	<0.001	8.0	82.0
865	KS-095	1.0	<0.2	2.0	116.0	7.58	<1.0	<1.0	12.0	<0.001	8.0	104.0
866	KS-096	<1.0	0.2	14.0	77.0	5.74	<1.0	<1.0	8.0	<0.001	<2.0	76.0
867	KS-097	3.0	<0.2	14.0	72.0	6.07	<1.0	<1.0	10.0	<0.001	2.0	74.0
868	KS-098	2.0	<0.2	<2.0	78.0	6.52	<1.0	<1.0	12.0	<0.001	2.0	78.0
869	KS-099	<1.0	<0.2	8.0	78.0	6.25	<1.0	<1.0	8.0	<0.001	<2.0	76.0
870	KS-100	2.0	<0.2	<2.0	81.0	6.24	<1.0	<1.0	6.0	<0.001	2.0	78.0
871	KS-101	1.0	<0.2	2.0	105.0	6.14	<1.0	<1.0	4.0	<0.001	2.0	92.0
872	KS-102	20.0	<0.2	6.0	83.0	7.02	<1.0	<1.0	8.0	<0.001	2.0	92.0
873	KS-103	1.0	<0.2	<2.0	82.0	6.61	<1.0	<1.0	4.0	<0.001	2.0	76.0
874	KS-104	<1.0	<0.2	2.0	93.0	6.52	<1.0	<1.0	4.0	<0.001	2.0	84.0
875	KS-105	3.0	<0.2	4.0	78.0	5.82	<1.0	<1.0	12.0	<0.001	2.0	74.0
876	KS-106	1.0	<0.2	<2.0	68.0	5.21	<1.0	<1.0	2.0	<0.001	4.0	72.0
877	KS-107	70.0	<0.2	6.0	67.0	4.80	<1.0	1.0	2.0	<0.001	<2.0	70.0
878	KS-108	7.0	<0.2	2.0	80.0	5.08	<1.0	<1.0	10.0	<0.001	2.0	80.0
879	KS-109	12.0	<0.2	14.0	69.0	5.76	<1.0	<1.0	6.0	<0.001	2.0	72.0
880	KS-110	<1.0	<0.2	<2.0	87.0	5.10	<1.0	<1.0	<2.0	<0.001	2.0	82.0
881	KS-111	<1.0	<0.2	8.0	80.0	5.50	<1.0	<1.0	12.0	<0.001	<2.0	78.0
882	KS-112	1.0	<0.2	<2.0	93.0	6.00	<1.0	1.0	4.0	<0.001	2.0	92.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (10)

No.	Element / Units / Detection Limit	Au ppb 1.0	Ag ppm 0.2	As ppm 2.0	Cu ppm 1.0	Fe % 0.01	Hg ppm 1.0	Mo ppm 1.0	Pb ppm 2.0	S % Total 0.010	Sb ppm 2.0	Zn ppm 2.0
1	ASL-01	20.0	<0.2	<2.0	238.0	9.13	<1.0	<1.0	<2.0	0.028	4.0	158.0
2	ASL-02	3.0	<0.2	<2.0	254.0	9.59	<1.0	<1.0	<2.0	0.029	12.0	134.0
3	ASL-03	<1.0	<0.2	<2.0	182.0	7.80	<1.0	<1.0	<2.0	0.019	10.0	98.0
4	ASL-04	1.0	<0.2	<2.0	241.0	11.05	<1.0	<1.0	<2.0	0.059	10.0	54.0
5	ASL-05	<1.0	<0.2	<2.0	318.0	10.30	<1.0	<1.0	<2.0	0.060	12.0	80.0
6	ASL-06	2.0	<0.2	<2.0	297.0	11.05	<1.0	<1.0	<2.0	0.045	8.0	92.0
7	ASL-07	1.0	<0.2	<2.0	238.0	10.55	<1.0	<1.0	<2.0	0.025	6.0	56.0
8	ASL-08	2.0	<0.2	<2.0	247.0	12.55	<1.0	<1.0	<2.0	0.032	6.0	158.0
9	ASL-09	2.0	<0.2	<2.0	222.0	9.18	<1.0	<1.0	<2.0	0.036	12.0	142.0
10	ASL-10	6.0	<0.2	<2.0	162.0	7.02	<1.0	<1.0	<2.0	0.050	14.0	108.0
11	ASL-11	<1.0	<0.2	<2.0	135.0	6.93	<1.0	<1.0	<2.0	0.023	2.0	100.0
12	ASL-12	1.0	<0.2	<2.0	158.0	9.27	<1.0	<1.0	<2.0	0.036	14.0	84.0
13	ASL-13	1.0	<0.2	<2.0	225.0	9.55	<1.0	1.0	<2.0	0.039	2.0	82.0
14	ASL-14	<1.0	<0.2	<2.0	173.0	9.38	<1.0	<1.0	<2.0	0.037	2.0	92.0
15	ASL-15	1.0	<0.2	<2.0	196.0	8.14	<1.0	<1.0	<2.0	0.034	<2.0	100.0
16	ASL-17	1.0	<0.2	<2.0	258.0	9.86	<1.0	<1.0	<2.0	0.022	<2.0	334.0
17	ASL-18	4.0	<0.2	<2.0	272.0	10.60	<1.0	<1.0	<2.0	0.028	<2.0	134.0
18	ASL-19	2.0	<0.2	<2.0	271.0	10.15	<1.0	<1.0	<2.0	0.034	<2.0	92.0
19	ASL-20	2.0	<0.2	<2.0	271.0	10.35	<1.0	1.0	<2.0	0.054	2.0	56.0
20	ASL-21	2.0	<0.2	<2.0	126.0	10.30	<1.0	1.0	<2.0	0.056	<2.0	24.0
21	ASL-22	3.0	<0.2	<2.0	189.0	11.90	<1.0	1.0	<2.0	0.073	<2.0	38.0
22	ASL-23	2.0	<0.2	<2.0	242.0	10.90	<1.0	3.0	<2.0	0.035	2.0	88.0
23	ASL-24	3.0	<0.2	<2.0	211.0	11.90	<1.0	1.0	<2.0	0.041	2.0	48.0
24	ASL-25	<1.0	<0.2	<2.0	217.0	8.50	<1.0	<1.0	<2.0	0.069	<2.0	56.0
25	ASL-26	2.0	<0.2	<2.0	263.0	9.41	<1.0	<1.0	<2.0	0.030	2.0	130.0
26	ASL-27	2.0	<0.2	<2.0	330.0	9.30	<1.0	<1.0	<2.0	0.002	<2.0	124.0
27	ASL-30	2.0	<0.2	<2.0	142.0	8.10	<1.0	1.0	<2.0	0.032	<2.0	96.0
28	ASL-31	2.0	<0.2	<2.0	133.0	8.40	<1.0	<1.0	<2.0	0.030	<2.0	44.0
29	ASL-32	<1.0	<0.2	<2.0	142.0	7.61	<1.0	1.0	<2.0	0.012	4.0	106.0
30	ASL-33	5.0	<0.2	<2.0	167.0	7.75	<1.0	1.0	<2.0	0.030	<2.0	100.0
31	ASL-34	1.0	<0.2	<2.0	191.0	9.61	<1.0	1.0	<2.0	0.021	2.0	110.0
32	ASL-35	3.0	<0.2	<2.0	189.0	9.19	<1.0	<1.0	<2.0	0.015	<2.0	116.0
33	ASL-36	1.0	<0.2	<2.0	189.0	8.47	<1.0	1.0	<2.0	0.031	4.0	106.0
34	ASL-37	2.0	<0.2	<2.0	161.0	8.58	<1.0	1.0	<2.0	0.035	2.0	106.0
35	ASL-38	1.0	<0.2	<2.0	185.0	9.65	<1.0	<1.0	<2.0	0.028	2.0	114.0
36	ASL-39	1.0	<0.2	<2.0	172.0	9.02	<1.0	<1.0	<2.0	0.038	2.0	94.0
37	ASL-40	<1.0	<0.2	<2.0	225.0	9.58	<1.0	<1.0	<2.0	0.028	<2.0	150.0
38	BSL-01	3.0	<0.2	<2.0	162.0	7.37	<1.0	<1.0	<2.0	0.011	2.0	122.0
39	BSL-02	3.0	<0.2	<2.0	137.0	7.92	<1.0	<1.0	<2.0	0.001	<2.0	108.0
40	BSL-03	4.0	<0.2	<2.0	219.0	7.50	<1.0	<1.0	<2.0	<0.001	<2.0	100.0
41	CSL-01	1.0	<0.2	<2.0	118.0	6.23	<1.0	<1.0	<2.0	0.009	2.0	84.0
42	DSL-01	29.0	<0.2	<2.0	209.0	7.91	<1.0	<1.0	<2.0	0.018	<2.0	122.0
43	DSL-02	1.0	<0.2	<2.0	282.0	9.57	<1.0	1.0	<2.0	0.047	2.0	132.0
44	DSL-03	4.0	<0.2	<2.0	149.0	7.73	<1.0	<1.0	<2.0	0.007	2.0	104.0
45	DSL-04	1.0	<0.2	<2.0	147.0	7.13	<1.0	<1.0	<2.0	0.011	<2.0	96.0
46	DSL-05	<1.0	<0.2	<2.0	146.0	5.88	<1.0	<1.0	<2.0	0.003	<2.0	92.0
47	DSL-06	1.0	<0.2	<2.0	143.0	7.62	<1.0	<1.0	<2.0	0.006	<2.0	100.0
48	DSL-07	1.0	<0.2	<2.0	152.0	8.60	<1.0	<1.0	<2.0	<0.001	<2.0	114.0
49	DSL-08	<1.0	<0.2	<2.0	187.0	8.85	<1.0	1.0	<2.0	0.010	<2.0	110.0
50	DSL-09	<1.0	<0.2	<2.0	153.0	7.15	<1.0	<1.0	<2.0	<0.001	<2.0	102.0
51	DSL-10	<1.0	<0.2	<2.0	161.0	7.27	<1.0	<1.0	<2.0	0.001	<2.0	110.0
52	DSL-11	<1.0	<0.2	<2.0	135.0	7.50	<1.0	<1.0	<2.0	0.010	<2.0	96.0
53	DSL-12	3.0	<0.2	<2.0	139.0	6.36	<1.0	<1.0	<2.0	0.003	2.0	102.0
54	DSL-13	2.0	<0.2	<2.0	147.0	6.43	<1.0	<1.0	<2.0	0.005	<2.0	82.0
55	DSL-14	<1.0	<0.2	<2.0	116.0	5.61	<1.0	<1.0	<2.0	<0.001	2.0	96.0
56	DSL-15	<1.0	<0.2	<2.0	158.0	8.57	<1.0	<1.0	<2.0	0.013	<2.0	92.0
57	DSL-16	<1.0	<0.2	<2.0	164.0	7.99	<1.0	<1.0	<2.0	0.015	<2.0	102.0
58	DSL-17	<1.0	<0.2	<2.0	144.0	7.79	<1.0	1.0	<2.0	0.009	<2.0	92.0
59	DSL-18	1.0	<0.2	<2.0	125.0	7.28	<1.0	1.0	<2.0	0.012	2.0	78.0
60	DSL-19	<1.0	<0.2	<2.0	140.0	6.97	<1.0	<1.0	<2.0	0.002	<2.0	132.0
61	DSL-20	<1.0	<0.2	<2.0	128.0	7.27	<1.0	1.0	<2.0	<0.001	2.0	116.0
62	DSL-21	<1.0	<0.2	<2.0	102.0	7.41	<1.0	<1.0	<2.0	<0.001	<2.0	38.0
63	DSL-22	2.0	<0.2	<2.0	126.0	7.25	<1.0	<1.0	<2.0	0.020	<2.0	128.0
64	DSL-23	1.0	<0.2	<2.0	121.0	8.62	<1.0	1.0	<2.0	0.038	<2.0	44.0
65	DSL-24	29.0	<0.2	<2.0	127.0	8.23	<1.0	<1.0	<2.0	0.045	<2.0	70.0
66	DSL-25	<1.0	<0.2	<2.0	136.0	8.63	<1.0	<1.0	<2.0	0.050	<2.0	50.0
67	DSL-26	<1.0	<0.2	<2.0	130.0	8.53	<1.0	1.0	<2.0	0.028	<2.0	72.0
68	DSL-27	2.0	<0.2	<2.0	152.0	8.69	<1.0	1.0	<2.0	0.024	4.0	120.0
69	DSL-28	<1.0	<0.2	<2.0	111.0	7.99	<1.0	<1.0	<2.0	0.025	2.0	50.0
70	DSL-29	<1.0	<0.2	<2.0	107.0	7.42	<1.0	1.0	<2.0	0.021	<2.0	58.0
71	DSL-30	2.0	<0.2	<2.0	115.0	7.86	<1.0	<1.0	<2.0	0.025	<2.0	68.0
72	DSL-31	<1.0	<0.2	<2.0	110.0	8.43	<1.0	<1.0	<2.0	0.020	<2.0	58.0
73	DSL-32	1.0	<0.2	<2.0	111.0	7.81	<1.0	<1.0	<2.0	0.024	2.0	66.0
74	DSL-33	1.0	<0.2	<2.0	113.0	8.24	<1.0	1.0	<2.0	0.029	<2.0	62.0
75	DSL-34	1.0	<0.2	<2.0	89.0	7.59	<1.0	1.0	<2.0	0.022	<2.0	46.0
76	DSL-35	<1.0	<0.2	<2.0	101.0	8.15	<1.0	<1.0	<2.0	0.027	<2.0	38.0
77	DSL-36	63.0	<0.2	<2.0	118.0	8.57	<1.0	<1.0	<2.0	0.022	<2.0	36.0
78	DSL-37	2.0	<0.2	<2.0	136.0	6.84	<1.0	<1.0	<2.0	0.012	<2.0	98.0
79	DSL-38	1.0	<0.2	<2.0	130.0	7.21	<1.0	<1.0	<2.0	0.023	<2.0	88.0
80	DSL-39	2.0	0.2	<2.0	125.0	6.76	<1.0	<1.0	<2.0	0.013	<2.0	76.0
81	DSL-40	1.0	<0.2	<2.0	125.0	6.94	<1.0	<1.0	<2.0	0.009	<2.0	76.0
82	DSL-41	2.0	<0.2	<2.0	117.0	7.16	<1.0	<1.0	<2.0	0.015	<2.0	82.0
83	DSL-42	<1.0	<0.2	<2.0	122.0	7.51	<1.0	<1.0	<2.0	0.013	<2.0	86.0
84	DSL-43	<1.0	<0.2	12.0	114.0	6.94	<1.0	<1.0	<2.0	0.023	<2.0	68.0
85	DSL-44	1.0	<0.2	<2.0	132.0	7.69	<1.0	<1.0	<2.0	0.067	<2.0	76.0
86	DSL-45	2.0	<0.2	2.0	128.0	7.32	<1.0	1.0	<2.0	0.028	<2.0	76.0
87	DSL-46	8.0	<0.2	<2.0	125.0	7.19	<1.0	<1.0	4.0	0.032	4.0	64.0
88	DSL-47	4.0	<0.2	<2.0	126.0	7.35	<1.0	<1.0	<2.0	0.038	<2.0	54.0
89	DSL-48	3.0	<0.2	<2.0	150.0	7.36	<1.0	<1.0	<2.0	0.019	<2.0	114.0
90	DSL-49	<1.0	<0.2	<2.0	129.0	6.73	<1.0	<1.0	<2.0	0.046	<2.0	54.0
91	DSL-50	<1.0	<0.2	<2.0	118.0	7.25	<1.0	<1.0	<2.0	0.058	<2.0	36.0
92	DSL-51	4.0	<0.2	<2.0	135.0	6.94	<1.0	<1.0	<2.0	0.022	<2.0	102.0
93	DSL-52	<1.0	<0.2	<2.0	103.0	7.08	<1.0	<1.0	<2.0	0.035	<2.0	60.0
94	DSL-53	<1.0	0.2	<2.0	146.0	6.57	<1.0	<1.0	<2.0	0.001	<2.0	90.0
95	DSL-54	2.0	<0.2	<2.0	214.0	8.53	<1.0	<1.0	<2.0	0.035	<2.0	120.0
96	DSL-55	2.0	<0.2	12.0	165.0	7.98	<1.0	<1.0	<2.0	0.032	<2.0	100.0
97	DSL-56	1.0	<0.2	<2.0	109.0	8.02	<1.0	<1.0	<2.0	0.030	<2.0	66.0
98	DSL-57	1.0	<0.2	<2.0	115.0	6.63	<1.0	<1.0	<2.0	0.035	<2.0	86.0
99	DSL-58	4.0	<0.2	<2.0	89.0	6.86	<1.0	<1.0	<2.0	0.024	<2.0	90.0
100	DSL-59	<1.0	<0.2	<2.0	119.0	6.75	<1.0	<1.0	<2.0	0.028	<2.0	94.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (11)

No.	Element / Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
101	DSL-60	<1.0	<0.2	<2.0	100.0	5.62	<1.0	<1.0	<2.0	0.001	<2.0	76.0
102	DSL-61	<1.0	<0.2	<2.0	97.0	6.23	<1.0	<1.0	<2.0	0.008	<2.0	70.0
103	DSL-62	<1.0	<0.2	<2.0	127.0	6.14	<1.0	<1.0	<2.0	0.001	<2.0	82.0
104	DSL-63	2.0	<0.2	<2.0	167.0	6.42	<1.0	<1.0	<2.0	0.020	<2.0	78.0
105	ESL-01	3.0	<0.2	<2.0	243.0	7.67	<1.0	<1.0	<2.0	0.014	<2.0	118.0
106	ESL-02	3.0	0.2	<2.0	145.0	6.94	<1.0	<1.0	<2.0	0.042	<2.0	28.0
107	ESL-03	<1.0	<0.2	<2.0	151.0	6.65	<1.0	<1.0	<2.0	0.023	<2.0	54.0
108	ESL-04	2.0	<0.2	<2.0	122.0	6.88	<1.0	<1.0	<2.0	0.016	<2.0	82.0
109	ESL-05	4.0	0.2	<2.0	216.0	10.25	<1.0	<1.0	<2.0	0.034	<2.0	58.0
110	ESL-06	2.0	0.2	<2.0	149.0	6.48	<1.0	<1.0	<2.0	0.019	<2.0	90.0
111	ESL-07	<1.0	<0.2	<2.0	109.0	7.17	<1.0	<1.0	<2.0	0.033	<2.0	52.0
112	ESL-10	10.0	<0.2	<2.0	206.0	8.52	<1.0	<1.0	<2.0	0.025	<2.0	94.0
113	ESL-11	1.0	<0.2	<2.0	204.0	8.64	<1.0	<1.0	<2.0	0.030	<2.0	52.0
114	ESL-12	3.0	<0.2	<2.0	224.0	8.79	<1.0	<1.0	8.0	0.028	8.0	58.0
115	ESL-13	6.0	<0.2	<2.0	202.0	7.30	<1.0	<1.0	<2.0	0.024	<2.0	102.0
116	ESL-14	2.0	<0.2	<2.0	213.0	7.98	<1.0	<1.0	<2.0	0.017	<2.0	88.0
117	ESL-15	<1.0	<0.2	<2.0	87.0	8.94	<1.0	<1.0	<2.0	0.018	<2.0	44.0
118	ESL-16	1.0	0.2	<2.0	217.0	7.90	<1.0	<1.0	<2.0	0.017	2.0	74.0
119	ESL-17	1.0	<0.2	<2.0	210.0	8.33	<1.0	<1.0	<2.0	0.019	<2.0	82.0
120	ESL-18	<1.0	<0.2	<2.0	182.0	7.08	<1.0	<1.0	<2.0	0.019	<2.0	80.0
121	ESL-19	1.0	<0.2	<2.0	180.0	7.09	<1.0	<1.0	<2.0	0.022	<2.0	76.0
122	ESL-20	<1.0	0.2	<2.0	163.0	6.27	<1.0	<1.0	<2.0	0.021	<2.0	74.0
123	ESL-21	<1.0	<0.2	<2.0	226.0	8.49	<1.0	<1.0	<2.0	0.032	2.0	76.0
124	ESL-22	<1.0	<0.2	<2.0	178.0	8.51	<1.0	<1.0	<2.0	0.022	<2.0	86.0
125	ESL-23	<1.0	<0.2	40.0	178.0	6.16	<1.0	<1.0	<2.0	0.028	<2.0	82.0
126	ESL-24	4.0	<0.2	<2.0	284.0	8.97	<1.0	<1.0	<2.0	0.036	<2.0	106.0
127	ESL-25	3.0	0.2	<2.0	249.0	9.00	<1.0	<1.0	<2.0	0.034	<2.0	80.0
128	ESL-26	6.0	0.4	<2.0	241.0	8.10	<1.0	<1.0	<2.0	0.019	<2.0	84.0
129	ESL-27	2.0	<0.2	<2.0	156.0	7.53	<1.0	<1.0	<2.0	0.029	<2.0	80.0
130	ESL-28	2.0	<0.2	<2.0	166.0	7.10	<1.0	<1.0	<2.0	0.022	<2.0	60.0
131	ESL-29	1.0	<0.2	<2.0	164.0	7.63	<1.0	<1.0	<2.0	0.036	<2.0	52.0
132	ESL-30	1.0	<0.2	<2.0	189.0	7.51	<1.0	<1.0	<2.0	0.042	<2.0	40.0
133	ESL-31	2.0	<0.2	<2.0	158.0	7.66	<1.0	<1.0	<2.0	0.032	<2.0	36.0
134	ESL-32	3.0	<0.2	<2.0	207.0	8.48	<1.0	<1.0	<2.0	0.040	<2.0	60.0
135	ESL-33	1.0	0.2	<2.0	252.0	8.43	<1.0	<1.0	<2.0	0.056	<2.0	86.0
136	ESL-34	1.0	0.2	<2.0	149.0	7.09	<1.0	<1.0	<2.0	0.030	<2.0	92.0
137	ESL-35	1.0	<0.2	<2.0	149.0	7.13	<1.0	<1.0	<2.0	0.024	2.0	88.0
138	ESL-36	2.0	<0.2	<2.0	166.0	6.85	<1.0	<1.0	<2.0	0.015	<2.0	94.0
139	ESL-37	1.0	<0.2	<2.0	159.0	6.73	<1.0	<1.0	<2.0	0.006	<2.0	94.0
140	ESL-38	1.0	0.4	<2.0	167.0	7.53	<1.0	<1.0	<2.0	0.022	<2.0	114.0
141	ESL-39	1.0	0.2	<2.0	146.0	6.53	<1.0	<1.0	<2.0	0.013	<2.0	92.0
142	ESL-40	2.0	<0.2	<2.0	173.0	6.76	<1.0	<1.0	<2.0	0.004	<2.0	94.0
143	ESL-41	2.0	<0.2	<2.0	211.0	7.60	<1.0	<1.0	<2.0	0.017	<2.0	90.0
144	ESL-42	1.0	0.4	<2.0	184.0	7.50	<1.0	<1.0	<2.0	0.027	<2.0	48.0
145	ESL-43	22.0	0.2	<2.0	117.0	7.33	<1.0	<1.0	<2.0	0.027	<2.0	34.0
146	ESL-44	<1.0	<0.2	<2.0	85.0	8.24	<1.0	<1.0	<2.0	0.022	<2.0	24.0
147	ESL-45	2.0	0.2	<2.0	120.0	6.62	<1.0	<1.0	<2.0	0.024	<2.0	32.0
148	FSL-01	20.0	0.2	<2.0	174.0	6.69	<1.0	<1.0	<2.0	0.027	<2.0	76.0
149	FSL-02	1.0	<0.2	<2.0	168.0	6.85	<1.0	<1.0	<2.0	0.024	<2.0	116.0
150	FSL-03	<1.0	0.2	<2.0	197.0	6.53	<1.0	<1.0	<2.0	0.022	<2.0	98.0
151	FSL-04	2.0	<0.2	<2.0	156.0	6.34	<1.0	<1.0	<2.0	0.018	<2.0	92.0
152	FSL-10	2.0	<0.2	<2.0	104.0	5.36	<1.0	<1.0	<2.0	0.013	<2.0	100.0
153	FSL-11	3.0	<0.2	<2.0	249.0	6.29	<1.0	<1.0	<2.0	<0.001	<2.0	84.0
154	FSL-12	8.0	<0.2	<2.0	281.0	7.54	<1.0	<1.0	<2.0	<0.001	<2.0	104.0
155	FSL-13	2.0	<0.2	<2.0	257.0	7.92	<1.0	<1.0	<2.0	<0.001	<2.0	118.0
156	FSL-14	<1.0	<0.2	<2.0	252.0	6.91	<1.0	<1.0	<2.0	<0.001	2.0	88.0
157	FSL-15	<1.0	<0.2	<2.0	78.0	5.38	<1.0	<1.0	<2.0	0.006	<2.0	48.0
158	FSL-16	<1.0	<0.2	<2.0	30.0	5.73	<1.0	<1.0	<2.0	0.009	<2.0	38.0
159	FSL-17	<1.0	<0.2	<2.0	137.0	5.27	<1.0	<1.0	<2.0	<0.001	<2.0	86.0
160	FSL-18	2.0	<0.2	<2.0	152.0	6.75	<1.0	<1.0	<2.0	0.014	<2.0	78.0
161	FSL-19	6.0	<0.2	<2.0	173.0	6.90	<1.0	<1.0	<2.0	0.022	<2.0	100.0
162	FSL-20	3.0	<0.2	<2.0	171.0	7.42	<1.0	<1.0	<2.0	0.030	2.0	50.0
163	FSL-21	<1.0	<0.2	<2.0	219.0	7.08	<1.0	<1.0	<2.0	0.013	<2.0	94.0
164	FSL-22	3.0	<0.2	<2.0	133.0	6.68	<1.0	<1.0	<2.0	0.021	<2.0	56.0
165	FSL-23	3.0	<0.2	<2.0	193.0	7.04	<1.0	<1.0	<2.0	0.020	<2.0	72.0
166	FSL-24	2.0	<0.2	<2.0	128.0	6.29	<1.0	<1.0	<2.0	0.021	<2.0	78.0
167	FSL-25	3.0	0.2	<2.0	148.0	6.35	<1.0	<1.0	<2.0	0.024	<2.0	76.0
168	FSL-26	3.0	<0.2	<2.0	279.0	6.53	<1.0	<1.0	<2.0	0.010	<2.0	90.0
169	FSL-27	4.0	<0.2	<2.0	170.0	6.74	<1.0	<1.0	<2.0	0.018	<2.0	64.0
170	FSL-28	11.0	<0.2	<2.0	120.0	6.03	<1.0	<1.0	<2.0	0.021	<2.0	62.0
171	FSL-29	6.0	<0.2	<2.0	238.0	6.68	<1.0	<1.0	<2.0	0.020	<2.0	118.0
172	FSL-30	4.0	0.2	<2.0	163.0	5.94	<1.0	<1.0	<2.0	0.023	<2.0	68.0
173	FSL-31	11.0	0.2	<2.0	114.0	5.83	<1.0	1.0	<2.0	0.024	2.0	64.0
174	FSL-32	6.0	<0.2	<2.0	280.0	7.54	<1.0	<1.0	<2.0	0.014	<2.0	94.0
175	FSL-33	4.0	0.2	<2.0	172.0	6.55	<1.0	<1.0	<2.0	0.022	<2.0	62.0
176	FSL-34	3.0	0.4	<2.0	120.0	5.86	<1.0	<1.0	<2.0	0.029	<2.0	62.0
177	FSL-35	5.0	<0.2	<2.0	177.0	7.01	<1.0	<1.0	<2.0	0.017	<2.0	82.0
178	FSL-36	5.0	<0.2	<2.0	179.0	7.06	<1.0	<1.0	<2.0	0.018	<2.0	70.0
179	FSL-37	<1.0	<0.2	<2.0	120.0	6.62	<1.0	<1.0	<2.0	<0.001	<2.0	84.0
180	FSL-38	3.0	0.2	<2.0	160.0	6.30	<1.0	1.0	<2.0	0.012	<2.0	80.0
181	FSL-39	3.0	0.2	<2.0	171.0	5.88	<1.0	<1.0	<2.0	0.017	<2.0	74.0
182	FSL-40	4.0	0.2	<2.0	120.0	5.52	<1.0	<1.0	<2.0	<0.001	<2.0	74.0
183	FSL-41	1.0	0.2	<2.0	160.0	6.17	<1.0	<1.0	<2.0	0.007	<2.0	76.0
184	FSL-42	2.0	0.2	<2.0	164.0	6.28	<1.0	<1.0	<2.0	0.016	<2.0	62.0
185	FSL-43	2.0	0.2	<2.0	201.0	5.59	<1.0	<1.0	<2.0	0.003	2.0	92.0
186	FSL-44	2.0	0.2	<2.0	120.0	5.13	<1.0	<1.0	<2.0	0.005	<2.0	78.0
187	FSL-45	1.0	0.2	<2.0	108.0	5.80	<1.0	<1.0	<2.0	0.017	<2.0	54.0
188	FSL-46	<1.0	<0.2	<2.0	62.0	5.99	<1.0	<1.0	<2.0	<0.001	<2.0	68.0
189	FSL-47	1.0	0.2	<2.0	138.0	5.83	<1.0	<1.0	<2.0	<0.001	<2.0	86.0
190	FSL-48	2.0	0.2	<2.0	110.0	5.95	<1.0	<1.0	<2.0	0.016	2.0	48.0
191	FSL-49	4.0	<0.2	<2.0	121.0	5.52	<1.0	<1.0	<2.0	0.008	<2.0	78.0
192	FSL-50	<1.0	<0.2	<2.0	116.0	5.95	<1.0	<1.0	<2.0	<0.001	<2.0	78.0
193	FSL-51	<1.0	0.2	<2.0	114.0	6.04	<1.0	<1.0	<2.0	0.020	<2.0	52.0
194	GSL-01	1.0	<0.2	<2.0	145.0	6.99	<1.0	<1.0	<2.0	0.020	<2.0	72.0
195	GSL-02	4.0	0.2	<2.0	120.0	5.69	<1.0	<1.0	<2.0	0.018	<2.0	82.0
196	GSL-03	<1.0	<0.2	<2.0	89.0	7.55	<1.0	<1.0	<2.0	0.033	<2.0	66.0
197	HSL-01	1.0	<0.2	<2.0	237.0	8.18	<1.0	<1.0	<2.0	0.022	<2.0	88.0
198	HSL-02	<1.0	<0.2	<2.0	278.0	7.20	<1.0	<1.0	<2.0	0.008	<2.0	76.0
199	HSL-03	12.0	<0.2	<2.0	278.0	8.37	<1.0	<1.0	<2.0	0.023	2.0	90.0
200	HSL-04	18.0	<0.2	<2.0	185.0	7.05	<1.0	<1.0	<2.0	0.022	<2.0	130.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (12)

No.	Element Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
201	HSL-05	4.0	<0.2	<2.0	242.0	8.60	<1.0	<1.0	<2.0	0.017	<2.0	82.0
202	HSL-06	1.0	<0.2	2.0	169.0	6.50	<1.0	1.0	<2.0	0.012	<2.0	74.0
203	HSL-07	2.0	<0.2	<2.0	239.0	5.57	<1.0	<1.0	<2.0	0.021	<2.0	82.0
204	HSL-08	15.0	<0.2	<2.0	204.0	8.05	<1.0	<1.0	<2.0	0.031	2.0	52.0
205	HSL-09	8.0	<0.2	<2.0	207.0	7.69	<1.0	<1.0	<2.0	0.029	4.0	58.0
206	HSL-10	<1.0	<0.2	<2.0	193.0	6.61	<1.0	<1.0	<2.0	0.019	<2.0	96.0
207	HSL-11	<1.0	<0.2	<2.0	99.0	5.54	<1.0	<1.0	<2.0	0.032	<2.0	44.0
208	HSL-12	4.0	<0.2	<2.0	144.0	5.94	<1.0	<1.0	<2.0	0.015	<2.0	112.0
209	JSL-01	28.0	0.2	<2.0	216.0	9.72	<1.0	<1.0	<2.0	0.024	<2.0	100.0
210	JSL-02	4.0	<0.2	<2.0	277.0	8.13	<1.0	<1.0	<2.0	0.029	<2.0	118.0
211	JSL-03	2.0	<0.2	<2.0	208.0	8.68	<1.0	<1.0	<2.0	0.043	4.0	44.0
212	JSL-04	4.0	0.4	<2.0	193.0	10.60	<1.0	3.0	<2.0	0.035	<2.0	38.0
213	JSL-05	2.0	0.2	<2.0	248.0	8.84	<1.0	<1.0	<2.0	0.029	<2.0	110.0
214	JSL-06	3.0	<0.2	<2.0	192.0	8.23	<1.0	<1.0	<2.0	0.042	<2.0	64.0
215	KSL-01	6.0	<0.2	<2.0	185.0	7.36	<1.0	<1.0	<2.0	0.031	<2.0	80.0
216	KSL-02	<1.0	0.2	<2.0	106.0	6.03	<1.0	<1.0	<2.0	0.026	<2.0	60.0
217	KSL-03	<1.0	0.2	<2.0	110.0	6.08	<1.0	<1.0	<2.0	0.020	<2.0	98.0
218	KSL-04	<1.0	0.2	<2.0	179.0	5.50	<1.0	1.0	<2.0	0.030	<2.0	116.0
219	KSL-05	1.0	0.2	<2.0	191.0	5.03	<1.0	<1.0	<2.0	0.031	2.0	98.0
220	KSL-06	2.0	0.2	2.0	182.0	6.05	<1.0	<1.0	<2.0	0.026	<2.0	116.0
221	KSL-07	<1.0	<0.2	<2.0	68.0	3.60	<1.0	<1.0	<2.0	0.031	<2.0	48.0
222	KSL-08	3.0	<0.2	<2.0	165.0	7.90	<1.0	1.0	<2.0	0.027	<2.0	62.0
223	KSL-09	1.0	<0.2	16.0	141.0	7.59	<1.0	<1.0	<2.0	0.029	<2.0	62.0
224	KSL-10	2.0	<0.2	8.0	209.0	7.13	<1.0	<1.0	<2.0	0.026	<2.0	72.0
225	KSL-11	2.0	<0.2	<2.0	181.0	7.28	<1.0	<1.0	<2.0	0.021	<2.0	90.0
226	KSL-12	3.0	<0.2	<2.0	159.0	7.38	<1.0	<1.0	<2.0	0.027	<2.0	62.0
227	KSL-13	1.0	0.2	<2.0	156.0	7.75	<1.0	<1.0	<2.0	0.029	<2.0	56.0
228	JTA-01	13.0	<0.2	<2.0	141.0	8.04	<1.0	<1.0	<2.0	0.035	<2.0	36.0
229	JTA-02	13.0	<0.2	<2.0	145.0	8.05	<1.0	<1.0	<2.0	0.026	<2.0	34.0
230	JTA-03	8.0	<0.2	<2.0	150.0	8.38	<1.0	<1.0	<2.0	0.027	<2.0	36.0
231	JTA-04	7.0	<0.2	<2.0	135.0	7.99	<1.0	<1.0	2.0	0.033	<2.0	34.0
232	JTA-05	5.0	<0.2	<2.0	153.0	8.44	<1.0	1.0	2.0	0.029	<2.0	34.0
233	JTA-06	110.0	<0.2	<2.0	187.0	7.94	<1.0	<1.0	2.0	0.022	<2.0	124.0
234	JTA-07	13.0	<0.2	<2.0	146.0	7.97	<1.0	<1.0	<2.0	0.022	<2.0	36.0
235	JTA-08	20.0	<0.2	<2.0	161.0	8.09	<1.0	1.0	4.0	0.027	<2.0	50.0
236	JTA-09	12.0	<0.2	<2.0	139.0	8.05	1.0	1.0	4.0	0.025	<2.0	36.0
237	JTA-10	2.0	<0.2	<2.0	185.0	8.12	<1.0	<1.0	2.0	0.024	<2.0	46.0
238	JTA-11	8.0	<0.2	<2.0	177.0	7.93	<1.0	<1.0	<2.0	0.023	<2.0	46.0
239	JTA-12	42.0	<0.2	<2.0	139.0	8.01	<1.0	1.0	2.0	0.024	<2.0	30.0
240	JTA-13	4.0	<0.2	<2.0	127.0	7.90	<1.0	1.0	2.0	0.024	<2.0	28.0
241	JTA-14	6.0	<0.2	<2.0	195.0	8.03	<1.0	2.0	6.0	0.030	<2.0	56.0
242	JTA-15	34.0	<0.2	<2.0	174.0	8.79	1.0	1.0	4.0	0.025	<2.0	44.0
243	JTA-16	64.0	<0.2	<2.0	209.0	8.91	1.0	1.0	2.0	0.026	<2.0	76.0
244	JTA-17	97.0	<0.2	<2.0	166.0	8.81	<1.0	1.0	4.0	0.031	<2.0	68.0
245	JTA-18	79.0	<0.2	<2.0	167.0	8.81	<1.0	1.0	<2.0	0.028	<2.0	88.0
246	JTA-19	53.0	<0.2	<2.0	161.0	8.47	<1.0	<1.0	<2.0	0.026	<2.0	134.0
247	JTA-20	57.0	<0.2	<2.0	197.0	8.86	<1.0	<1.0	<2.0	0.022	<2.0	98.0
248	JTA-21	8.0	0.2	<2.0	193.0	8.51	<1.0	<1.0	<2.0	0.013	4.0	110.0
249	JTA-22	39.0	0.2	2.0	236.0	7.87	<1.0	<1.0	<2.0	0.013	2.0	138.0
250	JTA-23	36.0	<0.2	<2.0	224.0	8.45	<1.0	<1.0	<2.0	0.021	<2.0	122.0
251	JTA-24	53.0	0.2	<2.0	230.0	7.79	<1.0	<1.0	<2.0	0.019	<2.0	140.0
252	JTA-25	60.0	<0.2	<2.0	215.0	8.03	<1.0	<1.0	<2.0	0.019	2.0	78.0
253	JTA-26	56.0	<0.2	<2.0	163.0	8.26	<1.0	<1.0	<2.0	0.019	<2.0	34.0
254	JTA-27	53.0	<0.2	<2.0	165.0	8.29	<1.0	<1.0	<2.0	0.021	<2.0	36.0
255	JTA-28	97.0	<0.2	<2.0	162.0	8.42	<1.0	<1.0	<2.0	0.023	<2.0	38.0
256	JTA-29	85.0	<0.2	<2.0	165.0	9.66	<1.0	<1.0	<2.0	0.024	2.0	38.0
257	JTA-30	78.0	<0.2	<2.0	153.0	8.99	<1.0	<1.0	<2.0	0.021	<2.0	38.0
258	JTA-31	44.0	<0.2	<2.0	168.0	9.88	<1.0	<1.0	<2.0	0.026	<2.0	46.0
259	JTA-32	56.0	<0.2	<2.0	219.0	9.78	<1.0	<1.0	<2.0	0.005	2.0	98.0
260	JTA-33	247.0	<0.2	<2.0	243.0	8.96	<1.0	<1.0	<2.0	0.021	2.0	92.0
261	JTA-34	252.0	<0.2	<2.0	143.0	8.84	<1.0	<1.0	<2.0	0.021	<2.0	38.0
262	JTA-35	222.0	<0.2	<2.0	147.0	8.54	<1.0	<1.0	2.0	0.025	2.0	52.0
263	JTA-36	298.0	<0.2	<2.0	165.0	8.86	<1.0	<1.0	<2.0	0.020	<2.0	42.0
264	JTA-37	169.0	<0.2	<2.0	151.0	7.78	<1.0	<1.0	<2.0	0.025	2.0	34.0
265	JTA-38	148.0	<0.2	<2.0	161.0	9.39	<1.0	<1.0	<2.0	0.019	2.0	30.0
266	JTA-39	136.0	<0.2	<2.0	160.0	10.05	<1.0	<1.0	<2.0	0.012	<2.0	32.0
267	JTA-40	115.0	<0.2	<2.0	181.0	11.05	<1.0	<1.0	<2.0	0.010	<2.0	36.0
268	JTA-41	152.0	<0.2	<2.0	177.0	11.00	<1.0	<1.0	<2.0	0.021	2.0	36.0
269	JTB-01	<1.0	0.2	<2.0	162.0	7.63	<1.0	<1.0	<2.0	0.029	2.0	148.0
270	JTB-02	<1.0	<0.2	4.0	175.0	7.90	<1.0	<1.0	<2.0	0.026	4.0	80.0
271	JTB-03	1.0	0.2	<2.0	137.0	7.60	<1.0	<1.0	<2.0	0.027	4.0	50.0
272	JTB-04	6.0	<0.2	4.0	138.0	8.03	<1.0	<1.0	4.0	0.024	2.0	44.0
273	JTB-05	2.0	<0.2	<2.0	184.0	7.53	<1.0	<1.0	<2.0	0.020	4.0	132.0
274	JTB-06	2.0	<0.2	<2.0	111.0	7.07	<1.0	<1.0	<2.0	0.026	2.0	36.0
275	JTB-07	<1.0	<0.2	<2.0	123.0	7.97	<1.0	<1.0	<2.0	0.021	4.0	32.0
276	JTB-08	36.0	<0.2	<2.0	123.0	7.88	<1.0	<1.0	<2.0	<0.001	2.0	30.0
277	JTB-09	128.0	<0.2	<2.0	127.0	8.13	<1.0	<1.0	<2.0	<0.001	2.0	34.0
278	JTB-10	113.0	<0.2	<2.0	149.0	7.80	<1.0	<1.0	<2.0	<0.001	2.0	36.0
279	JTB-11	107.0	<0.2	<2.0	153.0	7.98	<1.0	<1.0	<2.0	0.021	2.0	50.0
280	JTB-12	181.0	<0.2	<2.0	154.0	8.56	<1.0	<1.0	<2.0	0.018	2.0	42.0
281	JTB-13	<1.0	<0.2	<2.0	170.0	8.38	<1.0	<1.0	2.0	0.021	<2.0	66.0
282	JTB-14	100.0	<0.2	<2.0	166.0	8.05	<1.0	<1.0	<2.0	0.022	2.0	52.0
283	JTB-15	106.0	<0.2	<2.0	157.0	7.92	<1.0	<1.0	<2.0	0.024	2.0	62.0
284	JTB-16	32.0	<0.2	4.0	167.0	8.42	<1.0	<1.0	<2.0	0.024	2.0	66.0
285	JTB-17	76.0	0.2	<2.0	158.0	8.43	<1.0	<1.0	2.0	0.025	4.0	44.0
286	JTB-18	59.0	0.2	4.0	171.0	9.06	<1.0	<1.0	<2.0	0.026	4.0	52.0
287	JTB-19	51.0	<0.2	2.0	163.0	8.36	<1.0	<1.0	<2.0	0.016	4.0	52.0
288	JTB-20	85.0	<0.2	6.0	196.0	7.77	<1.0	<1.0	8.0	0.021	4.0	112.0
289	JTB-21	4.0	0.2	<2.0	180.0	7.98	<1.0	<1.0	10.0	0.006	<2.0	130.0
290	JTB-22	45.0	<0.2	2.0	282.0	9.67	<1.0	<1.0	8.0	0.012	4.0	144.0
291	JTB-23	4.0	0.2	6.0	179.0	8.61	<1.0	<1.0	4.0	0.023	4.0	82.0
292	JTB-24	19.0	<0.2	8.0	273.0	10.85	<1.0	<1.0	4.0	0.027	4.0	138.0
293	JTB-25	29.0	<0.2	<2.0	288.0	12.10	<1.0	<1.0	<2.0	0.028	2.0	146.0
294	JTB-26	44.0	<0.2	<2.0	247.0	10.45	<1.0	<1.0	2.0	0.017	2.0	142.0
295	JTB-27	28.0	<0.2	<2.0	200.0	9.15	<1.0	<1.0	<2.0	0.017	2.0	132.0
296	JTB-28	70.0	<0.2	6.0	180.0	8.90	<1.0	<1.0	<2.0	0.021	4.0	78.0
297	JTB-29	90.0	<0.2	<2.0	230.0	8.41	<1.0	<1.0	<2.0	0.022	2.0	166.0
298	JTB-30	47.0	<0.2	4.0	275.0	8.69	<1.0	<1.0	<2.0	0.015	2.0	200.0
299	JTB-31	214.0	<0.2	6.0	191.0	9.25	<1.0	<1.0	<2.0	0.017	2.0	62.0
300	JTB-32	62.0	<0.2	<2.0	172.0	8.33	<1.0	<1.0	<2.0	0.016	2.0	72.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (13)

No.	Element Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
301	JTB-33	49.0	<0.2	<2.0	188.0	8.47	<1.0	<1.0	<2.0	0.019	2.0	64.0
302	JTB-34	98.0	<0.2	<2.0	131.0	7.88	<1.0	<1.0	2.0	0.017	2.0	26.0
303	JTB-35	150.0	<0.2	<2.0	133.0	8.33	<1.0	<1.0	<2.0	0.010	<2.0	34.0
304	JTB-36	68.0	<0.2	<2.0	115.0	8.35	<1.0	<1.0	<2.0	0.012	<2.0	32.0
305	JTB-37	106.0	<0.2	<2.0	130.0	8.29	<1.0	<1.0	<2.0	0.016	<2.0	36.0
306	JTB-38	120.0	<0.2	<2.0	125.0	7.90	<1.0	<1.0	2.0	0.020	<2.0	30.0
307	JTB-39	225.0	<0.2	<2.0	128.0	8.16	<1.0	<1.0	<2.0	0.024	<2.0	38.0
308	JTB-40	98.0	<0.2	<2.0	122.0	8.30	<1.0	<1.0	<2.0	0.021	<2.0	28.0
309	JTB-41	153.0	<0.2	<2.0	172.0	10.90	<1.0	<1.0	<2.0	0.010	2.0	38.0
310	JTC-01	2.0	0.2	6.0	215.0	10.25	<1.0	<1.0	2.0	0.031	8.0	46.0
311	JTC-02	<1.0	<0.2	6.0	187.0	9.15	<1.0	<1.0	<2.0	0.025	4.0	72.0
312	JTC-03	<1.0	<0.2	<2.0	183.0	8.35	<1.0	<1.0	<2.0	0.018	4.0	78.0
313	JTC-04	51.0	<0.2	<2.0	190.0	7.77	<1.0	<1.0	2.0	0.010	2.0	88.0
314	JTC-05	6.0	<0.2	<2.0	183.0	8.00	<1.0	<1.0	<2.0	0.015	2.0	106.0
315	JTC-06	9.0	<0.2	<2.0	185.0	8.08	<1.0	<1.0	<2.0	0.020	6.0	104.0
316	JTC-07	28.0	<0.2	<2.0	291.0	9.19	<1.0	<1.0	<2.0	<0.001	2.0	128.0
317	JTC-08	33.0	<0.2	<2.0	285.0	9.31	<1.0	<1.0	<2.0	<0.001	<2.0	126.0
318	JTC-09	24.0	<0.2	<2.0	296.0	9.25	<1.0	<1.0	<2.0	<0.001	2.0	124.0
319	JTC-10	29.0	<0.2	<2.0	277.0	9.02	<1.0	<1.0	<2.0	<0.001	4.0	120.0
320	JTC-11	37.0	<0.2	<2.0	252.0	8.54	<1.0	<1.0	<2.0	<0.001	2.0	112.0
321	JTC-12	41.0	<0.2	<2.0	288.0	9.16	<1.0	<1.0	<2.0	0.015	2.0	126.0
322	JTC-13	18.0	<0.2	<2.0	239.0	9.04	<1.0	<1.0	<2.0	0.014	4.0	96.0
323	JTC-14	93.0	<0.2	<2.0	184.0	7.97	<1.0	<1.0	<2.0	0.020	4.0	82.0
324	JTC-15	70.0	<0.2	<2.0	188.0	7.96	<1.0	<1.0	<2.0	0.022	2.0	86.0
325	JTC-16	92.0	<0.2	<2.0	162.0	8.37	<1.0	<1.0	<2.0	0.020	4.0	74.0
326	JTC-17	65.0	<0.2	<2.0	162.0	8.55	<1.0	<1.0	<2.0	<0.001	6.0	56.0
327	JTC-18	80.0	<0.2	<2.0	159.0	8.47	<1.0	<1.0	2.0	0.034	<2.0	54.0
328	JTC-19	24.0	<0.2	<2.0	190.0	8.83	1.0	<1.0	<2.0	0.030	4.0	62.0
329	JTC-20	32.0	<0.2	<2.0	185.0	8.46	<1.0	<1.0	2.0	0.030	2.0	98.0
330	JTC-21	209.0	<0.2	<2.0	155.0	7.51	<1.0	<1.0	2.0	0.025	<2.0	74.0
331	JTC-22	24.0	<0.2	2.0	167.0	7.22	<1.0	<1.0	<2.0	0.026	<2.0	120.0
332	JTC-23	14.0	<0.2	<2.0	212.0	8.51	<1.0	<1.0	<2.0	0.024	2.0	98.0
333	JTC-24	15.0	<0.2	<2.0	217.0	8.89	<1.0	<1.0	2.0	0.019	4.0	112.0
334	JTC-25	20.0	<0.2	<2.0	184.0	8.43	<1.0	<1.0	<2.0	0.013	2.0	94.0
335	JTC-26	68.0	<0.2	<2.0	228.0	9.49	<1.0	<1.0	<2.0	0.011	<2.0	134.0
336	JTC-27	65.0	<0.2	<2.0	175.0	8.31	<1.0	<1.0	<2.0	0.022	4.0	112.0
337	JTC-28	35.0	<0.2	<2.0	197.0	9.25	<1.0	<1.0	<2.0	0.018	2.0	118.0
338	JTC-29	47.0	<0.2	<2.0	191.0	10.15	<1.0	<1.0	<2.0	0.021	2.0	86.0
339	JTC-30	43.0	<0.2	<2.0	191.0	10.25	<1.0	<1.0	<2.0	0.026	2.0	70.0
340	JTC-31	53.0	<0.2	<2.0	211.0	10.70	<1.0	<1.0	<2.0	0.023	2.0	78.0
341	JTC-32	56.0	<0.2	<2.0	160.0	8.32	<1.0	<1.0	<2.0	0.016	<2.0	54.0
342	JTC-33	35.0	<0.2	<2.0	154.0	8.49	<1.0	<1.0	<2.0	0.021	<2.0	42.0
343	JTC-34	68.0	<0.2	<2.0	134.0	7.35	<1.0	<1.0	<2.0	0.013	<2.0	28.0
344	JTC-35	97.0	<0.2	<2.0	131.0	7.64	<1.0	<1.0	<2.0	0.018	<2.0	24.0
345	JTC-36	65.0	<0.2	<2.0	114.0	8.00	<1.0	<1.0	<2.0	0.017	<2.0	34.0
346	JTC-37	68.0	<0.2	<2.0	108.0	7.70	<1.0	<1.0	<2.0	0.024	<2.0	38.0
347	JTC-38	169.0	<0.2	<2.0	138.0	7.73	<1.0	<1.0	<2.0	0.017	4.0	48.0
348	JTC-39	46.0	<0.2	<2.0	144.0	8.52	1.0	<1.0	<2.0	0.022	6.0	40.0
349	JTC-40	112.0	<0.2	<2.0	137.0	8.46	<1.0	<1.0	<2.0	0.020	4.0	30.0
350	JTC-41	38.0	<0.2	4.0	122.0	8.15	<1.0	<1.0	<2.0	0.024	6.0	26.0
351	DTD-01	63.0	<0.2	<2.0	173.0	7.57	1.0	<1.0	<2.0	0.015	6.0	80.0
352	DTD-02	8.0	<0.2	<2.0	171.0	7.14	1.0	<1.0	<2.0	0.023	4.0	104.0
353	DTD-03	9.0	<0.2	<2.0	158.0	7.48	1.0	<1.0	<2.0	0.026	6.0	178.0
354	DTD-04	30.0	<0.2	2.0	159.0	7.44	<1.0	<1.0	<2.0	0.026	6.0	78.0
355	DTD-05	39.0	<0.2	<2.0	174.0	7.66	<1.0	<1.0	<2.0	0.019	6.0	76.0
356	DTD-06	104.0	<0.2	<2.0	184.0	8.81	1.0	<1.0	<2.0	0.026	2.0	82.0
357	DTD-07	57.0	<0.2	<2.0	159.0	7.53	<1.0	<1.0	<2.0	0.024	2.0	92.0
358	DTD-08	63.0	<0.2	2.0	168.0	8.02	1.0	<1.0	<2.0	0.026	6.0	76.0
359	DTD-09	48.0	<0.2	<2.0	154.0	8.67	<1.0	<1.0	<2.0	0.020	6.0	30.0
360	DTD-10	41.0	<0.2	<2.0	156.0	8.62	1.0	<1.0	<2.0	0.017	6.0	42.0
361	DTD-11	56.0	<0.2	<2.0	157.0	8.41	<1.0	<1.0	<2.0	0.025	6.0	50.0
362	DTD-12	49.0	<0.2	8.0	166.0	8.99	<1.0	<1.0	<2.0	0.022	6.0	44.0
363	DTD-13	19.0	<0.2	<2.0	186.0	8.59	<1.0	<1.0	<2.0	0.020	4.0	44.0
364	DTD-14	9.0	<0.2	<2.0	186.0	7.87	<1.0	<1.0	<2.0	0.021	6.0	74.0
365	DTD-15	2.0	<0.2	<2.0	196.0	8.13	1.0	<1.0	<2.0	0.011	6.0	154.0
366	DTD-16	9.0	0.6	<2.0	201.0	8.53	<1.0	<1.0	<2.0	0.012	6.0	142.0
367	DTD-17	13.0	<0.2	<2.0	179.0	8.81	<1.0	<1.0	<2.0	0.027	4.0	52.0
368	DTD-18	21.0	<0.2	<2.0	218.0	9.04	<1.0	<1.0	<2.0	0.020	4.0	98.0
369	DTD-19	16.0	<0.2	<2.0	211.0	9.07	<1.0	<1.0	<2.0	0.020	8.0	108.0
370	DTD-20	25.0	<0.2	<2.0	184.0	7.83	<1.0	<1.0	<2.0	0.016	4.0	104.0
371	DTD-21	16.0	<0.2	<2.0	172.0	7.32	<1.0	<1.0	<2.0	0.017	2.0	116.0
372	DTD-22	81.0	<0.2	<2.0	275.0	7.83	<1.0	<1.0	<2.0	<0.001	4.0	84.0
373	DTD-23	41.0	<0.2	<2.0	206.0	9.44	<1.0	<1.0	<2.0	0.023	6.0	86.0
374	DTD-24	40.0	<0.2	<2.0	226.0	9.95	<1.0	<1.0	<2.0	0.026	12.0	80.0
375	DTD-25	24.0	<0.2	<2.0	285.0	10.75	<1.0	<1.0	<2.0	0.019	4.0	102.0
376	DTD-26	46.0	<0.2	<2.0	221.0	10.60	<1.0	<1.0	<2.0	0.023	8.0	70.0
377	DTD-27	84.0	<0.2	<2.0	197.0	10.20	<1.0	<1.0	<2.0	0.022	4.0	62.0
378	DTD-28	104.0	<0.2	<2.0	176.0	8.93	1.0	<1.0	<2.0	0.022	6.0	62.0
379	DTD-29	466.0	<0.2	<2.0	178.0	8.27	<1.0	<1.0	<2.0	0.020	6.0	66.0
380	DTD-30	79.0	<0.2	<2.0	159.0	7.63	1.0	<1.0	<2.0	0.016	4.0	54.0
381	DTD-31	55.0	<0.2	<2.0	139.0	7.65	<1.0	<1.0	<2.0	0.025	6.0	58.0
382	DTD-32	44.0	<0.2	<2.0	157.0	8.27	1.0	<1.0	<2.0	0.020	2.0	48.0
383	DTD-33	211.0	<0.2	<2.0	144.0	8.03	<1.0	<1.0	<2.0	0.017	4.0	36.0
384	DTD-34	259.0	<0.2	<2.0	149.0	7.47	<1.0	<1.0	<2.0	0.022	6.0	50.0
385	DTD-35	76.0	<0.2	<2.0	219.0	8.95	<1.0	<1.0	<2.0	0.025	4.0	112.0
386	DTD-36	50.0	<0.2	<2.0	235.0	11.25	1.0	<1.0	<2.0	0.021	6.0	80.0
387	DTD-37	34.0	<0.2	<2.0	156.0	8.26	<1.0	<1.0	<2.0	0.016	4.0	46.0
388	DTD-38	8.0	<0.2	<2.0	154.0	8.76	<1.0	<1.0	<2.0	<0.001	6.0	40.0
389	DTD-39	17.0	<0.2	<2.0	168.0	8.33	<1.0	<1.0	<2.0	<0.001	4.0	52.0
390	DTD-40	37.0	<0.2	2.0	193.0	9.27	<1.0	<1.0	<2.0	<0.001	4.0	76.0
391	DTD-41	5.0	<0.2	<2.0	154.0	7.86	<1.0	<1.0	<2.0	0.029	2.0	80.0
392	DTE-01	44.0	<0.2	<2.0	140.0	8.84	<1.0	<1.0	<2.0	0.019	6.0	40.0
393	DTE-02	82.0	<0.2	<2.0	152.0	7.86	<1.0	<1.0	<2.0	0.023	6.0	40.0
394	DTE-03	28.0	<0.2	<2.0	147.0	8.67	<1.0	<1.0	<2.0	0.024	4.0	38.0
395	DTE-04	39.0	<0.2	<2.0	149.0	8.56	<1.0	<1.0	<2.0	0.022	6.0	34.0
396	DTE-05	19.0	<0.2	2.0	157.0	7.89	<1.0	<1.0	<2.0	0.020	4.0	52.0
397	DTE-06	19.0	<0.2	<2.0	163.0	8.36	<1.0	<1.0	<2.0	0.021	2.0	60.0
398	DTE-07	76.0	<0.2	<2.0	167.0	7.77	<1.0	<1.0	<2.0	0.017	4.0	90.0
399	DTE-08	26.0	<0.2	<2.0	200.0	8.56	<1.0	<1.0	<2.0	0.021	4.0	86.0
400	DTE-09	21.0	<0.2	4.0	201.0	7.98	<1.0	<1.0	<2.0	0.015	4.0	92.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (14)

No.	Element / Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
401	DTE-10	16.0	<0.2	<2.0	196.0	8.14	<1.0	<1.0	<2.0	0.013	4.0	96.0
402	DTE-11	145.0	<0.2	<2.0	208.0	7.96	1.0	<1.0	<2.0	0.010	4.0	106.0
403	DTE-12	34.0	<0.2	<2.0	178.0	9.27	<1.0	<1.0	<2.0	0.011	6.0	90.0
404	DTE-13	21.0	<0.2	<2.0	192.0	8.06	<1.0	<1.0	<2.0	0.014	<2.0	100.0
405	DTE-14	9.0	<0.2	<2.0	212.0	8.59	<1.0	1.0	<2.0	0.015	4.0	104.0
406	DTE-15	19.0	<0.2	<2.0	186.0	7.41	<1.0	<1.0	<2.0	0.024	4.0	104.0
407	DTE-16	<1.0	<0.2	<2.0	174.0	6.92	<1.0	<1.0	<2.0	0.034	4.0	86.0
408	DTE-17	2.0	<0.2	<2.0	169.0	6.87	<1.0	<1.0	<2.0	0.020	2.0	84.0
409	DTE-18	1.0	<0.2	<2.0	173.0	6.29	<1.0	<1.0	<2.0	0.014	2.0	92.0
410	DTE-19	23.0	<0.2	<2.0	168.0	6.62	<1.0	<1.0	<2.0	0.015	2.0	94.0
411	DTE-20	20.0	<0.2	<2.0	158.0	6.53	<1.0	<1.0	<2.0	0.015	4.0	110.0
412	DTE-21	124.0	<0.2	<2.0	166.0	6.91	<1.0	<1.0	<2.0	0.014	6.0	94.0
413	DTE-22	59.0	<0.2	<2.0	161.0	7.24	<1.0	<1.0	<2.0	0.022	6.0	80.0
414	DTE-23	67.0	<0.2	<2.0	164.0	7.78	2.0	<1.0	<2.0	0.026	6.0	70.0
415	DTE-24	85.0	0.2	<2.0	205.0	8.71	<1.0	1.0	<2.0	0.027	2.0	80.0
416	DTE-25	88.0	<0.2	<2.0	195.0	8.26	<1.0	1.0	<2.0	0.027	2.0	86.0
417	DTE-26	33.0	<0.2	<2.0	203.0	8.29	<1.0	1.0	<2.0	0.020	4.0	94.0
418	DTE-27	39.0	<0.2	<2.0	174.0	7.17	<1.0	<1.0	<2.0	0.018	4.0	88.0
419	DTE-28	78.0	<0.2	<2.0	188.0	7.52	<1.0	1.0	<2.0	0.021	4.0	100.0
420	DTE-29	79.0	<0.2	<2.0	168.0	7.02	<1.0	1.0	<2.0	0.023	2.0	98.0
421	DTE-30	117.0	0.2	<2.0	167.0	5.51	1.0	<1.0	<2.0	0.045	<2.0	94.0
422	DTE-31	8.0	<0.2	<2.0	139.0	5.12	<1.0	<1.0	<2.0	0.015	6.0	90.0
423	DTE-32	11.0	<0.2	<2.0	149.0	6.26	<1.0	1.0	<2.0	0.026	6.0	82.0
424	DTE-33	48.0	<0.2	<2.0	149.0	6.91	<1.0	<1.0	<2.0	0.022	<2.0	76.0
425	DTE-34	60.0	<0.2	<2.0	170.0	7.50	<1.0	<1.0	<2.0	0.020	4.0	82.0
426	DTE-35	40.0	<0.2	<2.0	161.0	7.46	<1.0	1.0	<2.0	0.025	<2.0	80.0
427	DTE-36	129.0	0.2	<2.0	157.0	6.68	<1.0	1.0	<2.0	0.022	4.0	126.0
428	DTE-37	42.0	<0.2	<2.0	219.0	7.63	<1.0	<1.0	<2.0	<0.001	4.0	80.0
429	DTE-38	50.0	<0.2	<2.0	155.0	7.31	<1.0	<1.0	<2.0	<0.001	2.0	54.0
430	DTE-39	40.0	<0.2	<2.0	165.0	7.06	<1.0	<1.0	<2.0	0.014	4.0	84.0
431	DTE-40	76.0	<0.2	<2.0	149.0	7.49	<1.0	<1.0	4.0	<0.001	4.0	76.0
432	DTE-41	45.0	<0.2	<2.0	159.0	7.58	<1.0	1.0	<2.0	0.020	4.0	84.0
433	DTF-04	10.0	<0.2	<2.0	287.0	7.15	<1.0	<1.0	<2.0	<0.001	8.0	120.0
434	DTF-05	16.0	<0.2	<2.0	177.0	7.77	<1.0	<1.0	<2.0	<0.001	<2.0	110.0
435	DTF-06	<1.0	0.2	<2.0	206.0	6.46	<1.0	<1.0	<2.0	0.013	4.0	80.0
436	DTF-07	32.0	0.2	<2.0	254.0	9.18	<1.0	<1.0	<2.0	0.019	6.0	92.0
437	DTF-08	6.0	<0.2	<2.0	238.0	8.67	<1.0	<1.0	<2.0	0.018	4.0	94.0
438	DTF-09	3.0	<0.2	<2.0	214.0	8.52	<1.0	<1.0	<2.0	0.018	2.0	90.0
439	DTF-10	47.0	<0.2	<2.0	174.0	7.04	<1.0	1.0	<2.0	0.020	<2.0	90.0
440	DTF-11	112.0	<0.2	<2.0	192.0	7.69	<1.0	<1.0	<2.0	0.015	8.0	124.0
441	DTF-12	97.0	<0.2	<2.0	183.0	8.60	<1.0	1.0	<2.0	0.019	2.0	96.0
442	DTF-13	115.0	<0.2	<2.0	161.0	7.85	<1.0	1.0	<2.0	0.016	2.0	96.0
443	DTF-14	64.0	<0.2	<2.0	154.0	8.00	<1.0	<1.0	2.0	0.018	4.0	100.0
444	DTF-15	64.0	<0.2	<2.0	170.0	8.24	<1.0	<1.0	2.0	0.029	2.0	104.0
445	DTF-16	119.0	0.2	<2.0	172.0	7.46	<1.0	<1.0	<2.0	0.031	2.0	98.0
446	DTF-17	504.0	<0.2	<2.0	173.0	8.09	<1.0	1.0	<2.0	0.013	4.0	40.0
447	DTF-18	482.0	<0.2	<2.0	180.0	8.48	<1.0	<1.0	4.0	0.026	4.0	38.0
448	DTF-19	135.0	<0.2	<2.0	132.0	7.95	<1.0	1.0	<2.0	0.032	<2.0	28.0
449	DTF-20	94.0	<0.2	<2.0	124.0	7.90	<1.0	1.0	<2.0	0.025	2.0	26.0
450	DTF-21	19.0	<0.2	<2.0	350.0	11.05	<1.0	1.0	<2.0	0.030	6.0	150.0
451	DTF-22	4.0	<0.2	<2.0	228.0	9.00	<1.0	1.0	<2.0	0.022	2.0	90.0
452	DTF-23	3.0	<0.2	<2.0	190.0	8.62	<1.0	<1.0	<2.0	0.034	8.0	68.0
453	DTF-24	17.0	<0.2	<2.0	203.0	8.66	<1.0	<1.0	<2.0	0.028	2.0	74.0
454	DTF-25	12.0	<0.2	<2.0	194.0	8.82	<1.0	<1.0	<2.0	0.030	4.0	96.0
455	DTF-26	7.0	<0.2	<2.0	145.0	7.64	<1.0	<1.0	4.0	0.016	4.0	94.0
456	DTF-27	21.0	<0.2	<2.0	156.0	8.81	<1.0	<1.0	<2.0	0.025	4.0	36.0
457	DTF-28	17.0	<0.2	<2.0	136.0	8.51	<1.0	1.0	2.0	0.032	6.0	30.0
458	DTF-29	168.0	<0.2	<2.0	140.0	8.67	<1.0	<1.0	<2.0	0.032	8.0	30.0
459	DTF-30	91.0	<0.2	<2.0	141.0	7.68	<1.0	<1.0	2.0	0.027	4.0	32.0
460	DTF-31	98.0	<0.2	<2.0	145.0	7.93	<1.0	<1.0	4.0	0.029	4.0	34.0
461	DTF-32	33.0	<0.2	<2.0	183.0	8.76	<1.0	<1.0	<2.0	0.025	6.0	58.0
462	DTF-33	63.0	<0.2	<2.0	179.0	8.14	<1.0	<1.0	<2.0	0.018	4.0	64.0
463	DTF-34	122.0	<0.2	<2.0	158.0	7.20	<1.0	<1.0	<2.0	0.025	2.0	62.0
464	DTF-35	211.0	<0.2	<2.0	178.0	6.79	<1.0	1.0	<2.0	0.035	6.0	86.0
465	DTF-36	94.0	<0.2	<2.0	142.0	7.55	<1.0	<1.0	<2.0	0.026	4.0	74.0
466	DTF-37	68.0	<0.2	<2.0	148.0	8.26	<1.0	<1.0	<2.0	0.032	2.0	76.0
467	DTF-38	99.0	<0.2	<2.0	155.0	8.35	<1.0	<1.0	<2.0	0.024	6.0	48.0
468	DTF-39	53.0	<0.2	<2.0	167.0	8.41	<1.0	<1.0	<2.0	0.029	6.0	76.0
469	DTF-40	260.0	<0.2	<2.0	208.0	8.98	<1.0	1.0	<2.0	0.028	4.0	96.0
470	DTF-41	31.0	0.2	<2.0	155.0	7.56	<1.0	<1.0	<2.0	0.023	6.0	118.0
471	KTG-01	83.0	<0.2	<2.0	168.0	7.90	<1.0	<1.0	<2.0	0.016	4.0	110.0
472	KTG-02	35.0	<0.2	<2.0	187.0	8.14	<1.0	<1.0	<2.0	0.021	8.0	88.0
473	KTG-03	29.0	<0.2	<2.0	173.0	7.20	<1.0	<1.0	2.0	0.018	4.0	102.0
474	KTG-04	8.0	<0.2	<2.0	217.0	8.31	<1.0	<1.0	<2.0	0.015	4.0	98.0
475	KTG-05	<1.0	<0.2	<2.0	221.0	9.24	<1.0	<1.0	<2.0	0.015	8.0	114.0
476	KTG-06	16.0	<0.2	<2.0	159.0	7.50	<1.0	<1.0	<2.0	0.007	2.0	102.0
477	KTG-07	82.0	<0.2	<2.0	150.0	7.71	<1.0	<1.0	<2.0	0.020	8.0	86.0
478	KTG-08	23.0	<0.2	<2.0	172.0	7.99	<1.0	<1.0	<2.0	0.013	4.0	106.0
479	KTG-09	35.0	<0.2	<2.0	180.0	9.57	<1.0	<1.0	<2.0	0.019	10.0	74.0
480	KTG-10	13.0	<0.2	<2.0	211.0	10.10	<1.0	<1.0	<2.0	0.021	4.0	78.0
481	KTG-11	33.0	<0.2	<2.0	247.0	11.25	<1.0	<1.0	<2.0	0.026	8.0	80.0
482	KTG-12	89.0	<0.2	<2.0	226.0	10.95	<1.0	<1.0	2.0	0.021	6.0	64.0
483	KTG-13	61.0	<0.2	<2.0	183.0	10.45	<1.0	<1.0	<2.0	0.016	6.0	60.0
484	KTG-14	46.0	<0.2	<2.0	174.0	8.52	<1.0	<1.0	<2.0	0.019	4.0	66.0
485	KTG-15	17.0	<0.2	<2.0	160.0	8.07	<1.0	<1.0	<2.0	0.020	6.0	82.0
486	KTG-16	19.0	<0.2	<2.0	160.0	7.49	<1.0	<1.0	<2.0	0.016	6.0	92.0
487	KTG-17	<1.0	<0.2	<2.0	174.0	8.53	<1.0	<1.0	2.0	0.017	10.0	92.0
488	KTG-18	<1.0	<0.2	<2.0	181.0	8.55	<1.0	<1.0	8.0	0.019	6.0	92.0
489	KTG-19	<1.0	<0.2	<2.0	152.0	9.19	<1.0	<1.0	2.0	0.022	6.0	36.0
490	KTG-20	<1.0	<0.2	<2.0	136.0	9.00	<1.0	<1.0	<2.0	0.026	4.0	26.0
491	KTG-21	<1.0	<0.2	<2.0	126.0	9.61	<1.0	<1.0	<2.0	0.036	4.0	26.0
492	KTG-22	33.0	<0.2	<2.0	178.0	9.20	<1.0	<1.0	<2.0	0.027	4.0	30.0
493	KTG-23	26.0	<0.2	<2.0	159.0	9.03	<1.0	<1.0	<2.0	0.029	8.0	34.0
494	KTG-24	18.0	<0.2	<2.0	146.0	8.90	<1.0	<1.0	<2.0	0.025	6.0	36.0
495	KTG-25	40.0	<0.2	<2.0	134.0	9.08	<1.0	<1.0	2.0	0.031	4.0	32.0
496	KTG-26	21.0	<0.2	<2.0	128.0	9.04	<1.0	<1.0	<2.0	0.026	4.0	38.0
497	KTG-27	11.0	<0.2	<2.0	183.0	9.61	<1.0	<1.0	4.0	0.021	4.0	48.0
498	KTG-28	19.0	<0.2	<2.0	138.0	8.87	<1.0	<1.0	<2.0	0.022	4.0	34.0
499	KTG-29	15.0	<0.2	<2.0	173.0	8.83	<1.0	<1.0	<2.0	0.022	6.0	62.0
500	KTG-30	7.0	<0.2	<2.0	191.0	9.35	<1.0	<1.0	<2.0	0.020	6.0	80.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (15)

No.	Element Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
501	KTG-31	4.0	<0.2	2.0	155.0	7.43	<1.0	<1.0	<2.0	0.014	6.0	84.0
502	KTG-32	7.0	<0.2	<2.0	175.0	7.73	<1.0	<1.0	<2.0	0.018	8.0	92.0
503	KTG-33	12.0	<0.2	<2.0	172.0	8.04	<1.0	<1.0	<2.0	0.017	4.0	64.0
504	KTG-34	13.0	<0.2	<2.0	196.0	8.26	<1.0	<1.0	2.0	0.012	2.0	114.0
505	KTG-35	16.0	<0.2	<2.0	173.0	6.66	<1.0	<1.0	4.0	0.019	4.0	104.0
506	KTG-36	<1.0	<0.2	<2.0	162.0	7.00	<1.0	<1.0	<2.0	0.018	6.0	94.0
507	KTG-37	18.0	<0.2	<2.0	147.0	7.37	<1.0	<1.0	<2.0	0.019	4.0	82.0
508	KTG-38	1.0	<0.2	<2.0	151.0	6.83	<1.0	<1.0	<2.0	0.016	2.0	70.0
509	KTG-39	5.0	<0.2	<2.0	157.0	8.30	<1.0	<1.0	<2.0	0.022	6.0	58.0
510	KTG-40	31.0	<0.2	<2.0	145.0	7.92	<1.0	<1.0	4.0	0.016	2.0	68.0
511	KTG-41	56.0	<0.2	<2.0	155.0	7.81	<1.0	<1.0	<2.0	0.024	6.0	90.0
512	KTH-01	65.0	<0.2	<2.0	165.0	7.08	<1.0	<1.0	<2.0	0.012	4.0	102.0
513	KTH-02	105.0	<0.2	<2.0	160.0	7.40	<1.0	<1.0	<2.0	0.011	6.0	90.0
514	KTH-03	159.0	<0.2	<2.0	170.0	7.91	<1.0	<1.0	<2.0	0.020	2.0	90.0
515	KTH-04	166.0	<0.2	<2.0	166.0	7.39	<1.0	<1.0	<2.0	0.020	4.0	94.0
516	KTH-05	21.0	<0.2	<2.0	141.0	7.79	<1.0	<1.0	2.0	0.019	6.0	66.0
517	KTH-06	12.0	<0.2	<2.0	176.0	9.48	<1.0	<1.0	<2.0	0.025	4.0	62.0
518	KTH-07	42.0	<0.2	<2.0	173.0	7.36	<1.0	<1.0	<2.0	0.027	<2.0	80.0
519	KTH-08	27.0	<0.2	<2.0	155.0	6.63	<1.0	<1.0	<2.0	0.020	2.0	86.0
520	KTH-09	44.0	<0.2	<2.0	161.0	6.91	<1.0	<1.0	<2.0	0.021	4.0	86.0
521	KTH-10	56.0	<0.2	<2.0	180.0	8.08	<1.0	<1.0	<2.0	0.021	2.0	58.0
522	KTH-11	33.0	<0.2	<2.0	163.0	8.30	<1.0	<1.0	<2.0	0.018	4.0	50.0
523	KTH-12	4.0	<0.2	<2.0	217.0	8.83	<1.0	<1.0	<2.0	0.020	4.0	94.0
524	KTH-13	<1.0	<0.2	<2.0	192.0	8.63	<1.0	<1.0	<2.0	0.018	6.0	78.0
525	KTH-14	<1.0	<0.2	<2.0	216.0	8.58	<1.0	<1.0	<2.0	0.019	8.0	112.0
526	KTH-15	<1.0	<0.2	<2.0	194.0	8.94	<1.0	<1.0	2.0	0.020	12.0	88.0
527	KTH-16	<1.0	<0.2	<2.0	195.0	9.10	<1.0	<1.0	<2.0	0.022	8.0	76.0
528	KTH-17	<1.0	<0.2	<2.0	182.0	8.78	<1.0	<1.0	<2.0	0.036	6.0	84.0
529	KTH-18	<1.0	<0.2	<2.0	188.0	7.59	<1.0	<1.0	<2.0	0.017	6.0	102.0
530	KTH-19	15.0	<0.2	<2.0	214.0	8.14	<1.0	<1.0	<2.0	0.018	6.0	120.0
531	KTH-20	49.0	<0.2	<2.0	207.0	10.70	<1.0	<1.0	<2.0	0.032	4.0	52.0
532	KTH-21	25.0	<0.2	<2.0	187.0	9.95	<1.0	<1.0	<2.0	0.035	6.0	58.0
533	KTH-22	26.0	<0.2	<2.0	188.0	8.63	<1.0	<1.0	<2.0	0.024	2.0	96.0
534	KTH-23	9.0	<0.2	<2.0	154.0	7.18	<1.0	<1.0	<2.0	0.029	2.0	102.0
535	KTH-24	<1.0	<0.2	<2.0	129.0	6.56	<1.0	<1.0	<2.0	0.027	4.0	88.0
536	KTH-25	7.0	<0.2	<2.0	140.0	6.69	<1.0	<1.0	<2.0	0.026	4.0	90.0
537	KTH-26	7.0	<0.2	<2.0	140.0	7.23	<1.0	<1.0	<2.0	0.031	2.0	84.0
538	KTH-27	59.0	<0.2	<2.0	140.0	7.52	<1.0	<1.0	<2.0	0.037	4.0	62.0
539	KTH-28	14.0	<0.2	<2.0	174.0	8.84	<1.0	<1.0	<2.0	0.029	6.0	70.0
540	KTH-29	<1.0	<0.2	<2.0	151.0	6.75	<1.0	<1.0	<2.0	0.019	8.0	96.0
541	KTH-30	<1.0	<0.2	<2.0	187.0	8.61	<1.0	<1.0	<2.0	0.019	4.0	132.0
542	KTH-31	1.0	<0.2	<2.0	164.0	7.13	<1.0	<1.0	<2.0	0.022	4.0	92.0
543	KTH-32	<1.0	<0.2	<2.0	149.0	6.97	<1.0	<1.0	<2.0	0.024	2.0	94.0
544	KTH-33	4.0	<0.2	<2.0	177.0	4.86	<1.0	<1.0	<2.0	0.013	4.0	84.0
545	KTH-34	<1.0	<0.2	<2.0	177.0	7.24	<1.0	<1.0	<2.0	0.018	4.0	140.0
546	KTH-35	<1.0	<0.2	<2.0	139.0	7.40	<1.0	<1.0	<2.0	0.026	2.0	94.0
547	KTH-36	13.0	<0.2	<2.0	123.0	7.41	<1.0	<1.0	<2.0	0.025	6.0	44.0
548	KTH-37	9.0	<0.2	<2.0	121.0	7.03	<1.0	<1.0	<2.0	0.019	4.0	68.0
549	KTH-38	54.0	<0.2	<2.0	124.0	6.80	<1.0	<1.0	<2.0	0.022	4.0	92.0
550	KTH-39	7.0	<0.2	<2.0	157.0	7.87	<1.0	<1.0	<2.0	0.024	4.0	52.0
551	KTH-40	4.0	<0.2	<2.0	163.0	8.31	<1.0	<1.0	<2.0	0.031	<2.0	102.0
552	KTH-41	<1.0	<0.2	<2.0	152.0	9.28	<1.0	<1.0	<2.0	0.025	<2.0	52.0
553	KTI-01	37.0	<0.2	<2.0	222.0	10.45	<1.0	<1.0	<2.0	0.021	<2.0	94.0
554	KTI-02	61.0	<0.2	<2.0	228.0	11.00	<1.0	<1.0	<2.0	0.020	<2.0	88.0
555	KTI-03	28.0	<0.2	<2.0	216.0	11.40	<1.0	<1.0	<2.0	0.023	<2.0	76.0
556	KTI-04	6.0	<0.2	<2.0	185.0	8.77	<1.0	<1.0	<2.0	0.019	<2.0	94.0
557	KTI-05	14.0	<0.2	<2.0	150.0	8.11	<1.0	<1.0	<2.0	0.025	<2.0	94.0
558	KTI-06	11.0	<0.2	<2.0	162.0	7.91	<1.0	<1.0	4.0	0.026	<2.0	94.0
559	KTI-07	22.0	<0.2	<2.0	202.0	10.95	<1.0	<1.0	4.0	0.028	<2.0	92.0
560	KTI-08	23.0	<0.2	<2.0	171.0	9.67	<1.0	<1.0	<2.0	0.024	2.0	82.0
561	KTI-09	3.0	<0.2	<2.0	148.0	8.61	<1.0	<1.0	4.0	0.024	2.0	120.0
562	KTI-10	19.0	<0.2	<2.0	148.0	9.45	<1.0	<1.0	<2.0	0.024	4.0	58.0
563	KTI-11	1.0	<0.2	<2.0	156.0	9.52	<1.0	<1.0	<2.0	0.031	4.0	70.0
564	KTI-12	8.0	<0.2	<2.0	158.0	9.20	<1.0	<1.0	4.0	0.034	<2.0	46.0
565	KTI-13	<1.0	<0.2	<2.0	154.0	9.39	<1.0	<1.0	<2.0	0.035	2.0	28.0
566	KTI-14	<1.0	<0.2	<2.0	135.0	9.62	<1.0	<1.0	<2.0	0.029	2.0	24.0
567	KTI-15	7.0	<0.2	<2.0	156.0	9.50	<1.0	<1.0	<2.0	0.032	2.0	20.0
568	KTI-16	13.0	<0.2	<2.0	151.0	8.92	<1.0	<1.0	<2.0	0.029	2.0	34.0
569	KTI-17	30.0	<0.2	<2.0	143.0	9.28	<1.0	<1.0	<2.0	0.033	4.0	38.0
570	KTI-18	13.0	<0.2	<2.0	128.0	7.89	<1.0	<1.0	<2.0	0.028	4.0	52.0
571	KTI-19	22.0	<0.2	<2.0	142.0	8.08	<1.0	<1.0	2.0	0.035	2.0	44.0
572	KTI-20	40.0	<0.2	<2.0	138.0	9.05	<1.0	<1.0	2.0	0.033	<2.0	32.0
573	KTI-21	74.0	<0.2	<2.0	197.0	9.61	<1.0	<1.0	<2.0	0.038	2.0	46.0
574	KTI-22	121.0	<0.2	<2.0	142.0	8.79	<1.0	<1.0	<2.0	0.035	2.0	44.0
575	KTI-23	20.0	<0.2	<2.0	174.0	9.78	<1.0	<1.0	2.0	0.039	2.0	54.0
576	KTI-24	<1.0	<0.2	<2.0	177.0	9.04	<1.0	<1.0	<2.0	0.027	4.0	64.0
577	KTI-25	<1.0	<0.2	<2.0	220.0	9.63	<1.0	<1.0	2.0	0.033	4.0	160.0
578	KTI-26	<1.0	<0.2	<2.0	243.0	8.04	<1.0	<1.0	<2.0	0.026	2.0	112.0
579	KTI-27	12.0	<0.2	<2.0	130.0	7.68	<1.0	<1.0	4.0	0.029	<2.0	52.0
580	KTI-28	15.0	<0.2	<2.0	174.0	9.21	<1.0	<1.0	<2.0	0.040	2.0	44.0
581	KTI-29	107.0	<0.2	<2.0	152.0	10.70	<1.0	<1.0	<2.0	0.033	2.0	24.0
582	KTI-30	42.0	<0.2	<2.0	166.0	10.30	<1.0	<1.0	<2.0	0.045	4.0	34.0
583	KTI-31	<1.0	<0.2	<2.0	193.0	9.48	<1.0	<1.0	<2.0	0.039	6.0	110.0
584	KTI-32	<1.0	<0.2	<2.0	172.0	8.08	<1.0	<1.0	<2.0	0.029	2.0	130.0
585	KTI-33	2.0	<0.2	<2.0	202.0	9.09	<1.0	<1.0	<2.0	0.032	6.0	80.0
586	KTI-34	<1.0	<0.2	<2.0	159.0	8.70	<1.0	<1.0	<2.0	0.022	<2.0	96.0
587	KTI-35	<1.0	<0.2	<2.0	169.0	8.50	<1.0	<1.0	<2.0	0.033	2.0	58.0
588	KTI-36	61.0	<0.2	<2.0	79.0	7.90	<1.0	<1.0	<2.0	0.023	<2.0	24.0
589	KTI-37	58.0	<0.2	<2.0	85.0	7.40	<1.0	<1.0	<2.0	0.026	2.0	22.0
590	KTI-38	12.0	<0.2	<2.0	153.0	8.13	<1.0	<1.0	<2.0	0.029	4.0	30.0
591	KTI-39	3.0	<0.2	<2.0	171.0	8.40	<1.0	<1.0	<2.0	0.034	4.0	44.0
592	KTI-40	10.0	<0.2	<2.0	146.0	9.48	<1.0	<1.0	<2.0	0.040	4.0	36.0
593	KTI-41	<1.0	<0.2	<2.0	143.0	8.05	<1.0	<1.0	2.0	0.023	4.0	38.0
594	KYA-01	30.0	<0.2	<2.0	216.0	8.39	<1.0	<1.0	<2.0	0.003	4.0	104.0
595	KYA-02	27.0	<0.2	<2.0	191.0	9.12	<1.0	<1.0	<2.0	0.014	6.0	102.0
596	KYA-03	24.0	<0.2	<2.0	172.0	8.35	<1.0	<1.0	<2.0	0.020	4.0	94.0
597	KYA-04	240.0	<0.2	<2.0	159.0	8.69	<1.0	<1.0	<2.0	0.026	6.0	90.0
598	KYA-05	94.0	<0.2	<2.0	160.0	9.00	<1.0	<1.0	2.0	0.025	6.0	94.0
599	KYA-06	359.0	<0.2	<2.0	192.0	7.67	<1.0	<1.0	<2.0	0.024	6.0	84.0
600	KYA-07	142.0	0.2	<2.0	211.0	6.82	<1.0	<1.0	<2.0	0.028	4.0	78.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (16)

No.	Element Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
601	KYA-08	241.0	<0.2	<2.0	225.0	9.43	<1.0	<1.0	<2.0	0.027	4.0	98.0
602	KYA-09	194.0	<0.2	<2.0	199.0	9.55	<1.0	<1.0	<2.0	0.031	4.0	88.0
603	KYA-10	111.0	<0.2	<2.0	158.0	9.04	<1.0	<1.0	<2.0	0.027	6.0	58.0
604	KYA-11	79.0	<0.2	<2.0	140.0	8.78	<1.0	<1.0	<2.0	0.028	2.0	58.0
605	KYA-12	85.0	<0.2	<2.0	139.0	8.15	<1.0	<1.0	2.0	0.024	2.0	58.0
606	KYA-13	41.0	<0.2	<2.0	153.0	9.10	<1.0	<1.0	2.0	0.028	4.0	58.0
607	KYA-14	402.0	<0.2	<2.0	153.0	9.07	<1.0	<1.0	<2.0	0.027	4.0	40.0
608	KYA-15	291.0	<0.2	<2.0	160.0	9.94	<1.0	<1.0	<2.0	0.026	4.0	32.0
609	KYA-16	247.0	<0.2	<2.0	143.0	9.44	<1.0	<1.0	<2.0	0.025	4.0	28.0
610	KYA-17	436.0	<0.2	<2.0	121.0	8.56	<1.0	<1.0	<2.0	0.028	6.0	22.0
611	KYA-18	306.0	<0.2	<2.0	138.0	9.88	<1.0	<1.0	<2.0	0.030	4.0	24.0
612	KYA-19	347.0	<0.2	<2.0	124.0	9.40	<1.0	<1.0	<2.0	0.025	4.0	22.0
613	KYA-20	398.0	<0.2	<2.0	159.0	11.05	<1.0	<1.0	<2.0	0.029	2.0	30.0
614	KYA-21	395.0	<0.2	<2.0	161.0	11.80	<1.0	<1.0	<2.0	0.025	2.0	24.0
615	KYA-22	489.0	<0.2	<2.0	180.0	11.30	<1.0	<1.0	<2.0	0.026	<2.0	28.0
616	KYA-23	395.0	<0.2	<2.0	171.0	10.55	<1.0	<1.0	<2.0	0.024	4.0	26.0
617	KYA-24	105.0	<0.2	<2.0	151.0	10.05	<1.0	<1.0	<2.0	0.029	2.0	26.0
618	KYA-25	36.0	<0.2	<2.0	136.0	12.35	<1.0	<1.0	<2.0	0.033	2.0	26.0
619	KYA-26	23.0	<0.2	<2.0	193.0	13.00	<1.0	<1.0	<2.0	0.031	2.0	30.0
620	KYA-27	30.0	<0.2	<2.0	174.0	10.80	<1.0	<1.0	<2.0	0.030	4.0	32.0
621	KYA-28	18.0	<0.2	<2.0	139.0	8.60	<1.0	<1.0	<2.0	0.020	<2.0	30.0
622	KYA-29	92.0	<0.2	<2.0	164.0	9.35	<1.0	<1.0	<2.0	0.028	4.0	38.0
623	KYA-30	32.0	<0.2	<2.0	193.0	8.67	<1.0	<1.0	<2.0	0.025	2.0	58.0
624	KYA-31	<1.0	<0.2	<2.0	163.0	7.85	<1.0	<1.0	<2.0	0.010	2.0	112.0
625	KYA-32	<1.0	<0.2	<2.0	154.0	7.56	<1.0	<1.0	<2.0	0.019	6.0	100.0
626	KYA-33	<1.0	<0.2	<2.0	161.0	8.15	<1.0	<1.0	<2.0	0.027	6.0	84.0
627	KYA-34	<1.0	<0.2	<2.0	169.0	8.72	<1.0	<1.0	<2.0	0.025	8.0	100.0
628	KYA-35	<1.0	<0.2	<2.0	197.0	9.51	<1.0	<1.0	<2.0	0.026	6.0	102.0
629	KYA-36	<1.0	<0.2	<2.0	157.0	8.38	<1.0	<1.0	<2.0	0.027	<2.0	60.0
630	KYA-37	<1.0	<0.2	<2.0	180.0	9.65	<1.0	<1.0	<2.0	0.028	6.0	62.0
631	KYA-38	<1.0	<0.2	<2.0	176.0	9.11	<1.0	<1.0	<2.0	0.022	6.0	62.0
632	KYA-39	<1.0	<0.2	<2.0	159.0	8.40	<1.0	<1.0	<2.0	0.033	2.0	48.0
633	KYA-40	<1.0	<0.2	<2.0	185.0	9.71	<1.0	<1.0	<2.0	0.026	6.0	50.0
634	KYA-41	<1.0	<0.2	<2.0	210.0	9.74	<1.0	<1.0	<2.0	0.033	6.0	94.0
635	KYB-01	<1.0	<0.2	<2.0	189.0	8.23	<1.0	<1.0	<2.0	0.016	4.0	136.0
636	KYB-02	33.0	<0.2	<2.0	205.0	9.06	<1.0	<1.0	2.0	0.021	2.0	98.0
637	KYB-03	32.0	<0.2	<2.0	213.0	9.51	<1.0	<1.0	<2.0	0.017	2.0	104.0
638	KYB-04	101.0	<0.2	<2.0	221.0	8.91	<1.0	<1.0	<2.0	0.019	4.0	94.0
639	KYB-05	17.0	<0.2	<2.0	191.0	8.79	<1.0	<1.0	<2.0	0.014	4.0	120.0
640	KYB-06	44.0	<0.2	<2.0	185.0	8.67	<1.0	<1.0	<2.0	0.024	2.0	86.0
641	KYB-07	<1.0	<0.2	<2.0	182.0	9.32	<1.0	<1.0	<2.0	0.023	4.0	82.0
642	KYB-08	2.0	<0.2	<2.0	161.0	8.81	<1.0	<1.0	<2.0	0.024	4.0	78.0
643	KYB-09	2.0	<0.2	<2.0	162.0	8.89	<1.0	<1.0	<2.0	0.019	4.0	74.0
644	KYB-10	<1.0	<0.2	<2.0	188.0	9.54	<1.0	<1.0	<2.0	0.015	6.0	102.0
645	KYB-11	8.0	<0.2	<2.0	160.0	7.77	<1.0	<1.0	<2.0	0.016	4.0	86.0
646	KYB-12	153.0	<0.2	<2.0	154.0	8.21	<1.0	<1.0	<2.0	0.019	4.0	72.0
647	KYB-13	237.0	<0.2	<2.0	168.0	8.19	<1.0	<1.0	<2.0	0.028	2.0	90.0
648	KYB-14	91.0	<0.2	<2.0	191.0	9.07	<1.0	<1.0	<2.0	0.029	6.0	70.0
649	KYB-15	182.0	<0.2	<2.0	189.0	8.68	<1.0	<1.0	<2.0	0.025	8.0	76.0
650	KYB-16	390.0	<0.2	<2.0	225.0	8.77	<1.0	<1.0	2.0	0.027	8.0	76.0
651	KYB-17	244.0	<0.2	<2.0	194.0	9.56	<1.0	<1.0	<2.0	0.035	6.0	52.0
652	KYB-18	762.0	<0.2	<2.0	169.0	9.71	<1.0	<1.0	<2.0	0.029	8.0	46.0
653	KYB-19	84.0	<0.2	<2.0	167.0	9.32	<1.0	<1.0	<2.0	0.036	6.0	68.0
654	KYB-20	282.0	<0.2	<2.0	187.0	8.08	<1.0	<1.0	<2.0	0.038	6.0	56.0
655	KYB-21	381.0	<0.2	<2.0	187.0	9.26	<1.0	<1.0	<2.0	0.023	8.0	48.0
656	KYB-22	1830.0	<0.2	<2.0	238.0	11.05	<1.0	<1.0	<2.0	0.031	8.0	56.0
657	KYB-23	249.0	<0.2	<2.0	288.0	9.82	<1.0	<1.0	<2.0	0.029	4.0	96.0
658	KYB-24	396.0	<0.2	<2.0	259.0	9.22	<1.0	<1.0	<2.0	0.031	6.0	68.0
659	KYB-25	329.0	<0.2	<2.0	185.0	9.31	<1.0	<1.0	<2.0	0.037	6.0	64.0
660	KYB-26	511.0	<0.2	<2.0	170.0	9.84	<1.0	<1.0	<2.0	0.027	4.0	44.0
661	KYB-27	<1.0	<0.2	<2.0	155.0	7.66	<1.0	<1.0	<2.0	0.021	<2.0	102.0
662	KYB-28	<1.0	<0.2	<2.0	152.0	7.40	<1.0	<1.0	<2.0	0.020	4.0	124.0
663	KYB-29	<1.0	<0.2	<2.0	142.0	8.24	<1.0	<1.0	<2.0	0.014	2.0	98.0
664	KYB-30	19.0	<0.2	<2.0	154.0	7.76	<1.0	<1.0	<2.0	0.030	6.0	106.0
665	KYB-31	<1.0	<0.2	<2.0	172.0	7.99	<1.0	<1.0	<2.0	0.030	4.0	106.0
666	KYB-32	23.0	<0.2	<2.0	149.0	7.17	<1.0	<1.0	<2.0	0.037	6.0	86.0
667	KYB-33	95.0	<0.2	<2.0	190.0	8.67	<1.0	<1.0	<2.0	0.019	10.0	110.0
668	KYB-34	3.0	<0.2	<2.0	149.0	8.18	<1.0	<1.0	<2.0	0.029	6.0	52.0
669	KYB-35	48.0	<0.2	<2.0	126.0	7.01	<1.0	<1.0	<2.0	<0.001	4.0	64.0
670	KYB-36	<1.0	<0.2	<2.0	149.0	8.02	<1.0	<1.0	<2.0	0.023	8.0	44.0
671	KYB-37	<1.0	<0.2	<2.0	184.0	8.64	<1.0	<1.0	<2.0	0.039	4.0	68.0
672	KYB-38	<1.0	<0.2	<2.0	174.0	8.35	<1.0	<1.0	<2.0	0.032	10.0	58.0
673	KYB-39	<1.0	<0.2	<2.0	152.0	8.72	<1.0	<1.0	<2.0	0.032	6.0	50.0
674	KYB-40	<1.0	<0.2	<2.0	155.0	8.51	<1.0	<1.0	<2.0	0.031	8.0	50.0
675	KYB-41	<1.0	<0.2	<2.0	183.0	8.82	<1.0	<1.0	<2.0	0.027	4.0	48.0
676	KYC-01	125.0	<0.2	<2.0	161.0	8.16	<1.0	1.0	4.0	0.039	6.0	78.0
677	KYC-02	202.0	<0.2	<2.0	166.0	8.97	<1.0	<1.0	6.0	0.037	4.0	72.0
678	KYC-03	184.0	<0.2	<2.0	156.0	8.91	<1.0	<1.0	6.0	0.033	4.0	64.0
679	KYC-04	268.0	<0.2	<2.0	136.0	7.66	<1.0	<1.0	<2.0	0.039	4.0	34.0
680	KYC-05	443.0	<0.2	<2.0	158.0	8.66	<1.0	1.0	4.0	0.024	6.0	34.0
681	KYC-06	586.0	<0.2	<2.0	187.0	8.36	<1.0	<1.0	<2.0	0.025	4.0	36.0
682	KYC-07	666.0	<0.2	<2.0	186.0	8.31	<1.0	1.0	4.0	0.032	8.0	44.0
683	KYC-08	995.0	<0.2	<2.0	162.0	8.14	<1.0	1.0	2.0	0.029	<2.0	38.0
684	KYC-09	941.0	<0.2	<2.0	150.0	8.05	<1.0	1.0	4.0	0.029	2.0	34.0
685	KYC-10	717.0	<0.2	<2.0	168.0	9.46	<1.0	2.0	4.0	0.028	2.0	36.0
686	KYC-11	880.0	<0.2	<2.0	129.0	7.44	<1.0	1.0	<2.0	0.022	6.0	26.0
687	KYC-12	1040.0	<0.2	<2.0	145.0	8.21	<1.0	1.0	2.0	0.031	6.0	34.0
688	KYC-13	556.0	<0.2	<2.0	161.0	8.10	<1.0	1.0	<2.0	0.034	4.0	36.0
689	KYC-14	384.0	<0.2	<2.0	121.0	7.25	<1.0	<1.0	<2.0	0.036	4.0	22.0
690	KYC-15	458.0	<0.2	<2.0	129.0	8.37	<1.0	1.0	4.0	0.032	6.0	24.0
691	KYC-16	391.0	<0.2	<2.0	140.0	8.88	<1.0	1.0	4.0	0.030	4.0	32.0
692	KYC-17	180.0	<0.2	<2.0	159.0	9.22	<1.0	1.0	2.0	0.033	4.0	44.0
693	KYC-18	186.0	<0.2	<2.0	190.0	8.72	<1.0	1.0	<2.0	0.030	6.0	68.0
694	KYC-19	400.0	<0.2	<2.0	217.0	9.88	<1.0	2.0	4.0	0.035	6.0	50.0
695	KYC-20	259.0	<0.2	<2.0	195.0	8.74	<1.0	<1.0	<2.0	0.035	2.0	54.0
696	KYC-21	106.0	<0.2	<2.0	256.0	11.15	<1.0	1.0	2.0	0.045	10.0	60.0
697	KYC-22	230.0	<0.2	<2.0	320.0	10.30	<1.0	1.0	<2.0	0.028	4.0	64.0
698	KYC-23	382.0	<0.2	<2.0	414.0	9.83	<1.0	1.0	<2.0	0.033	12.0	74.0
699	KYC-24	1870.0	<0.2	<2.0	334.0	7.15	<1.0	2.0	4.0	0.034	4.0	86.0
700	KYC-25	180.0	<0.2	<2.0	192.0	8.45	<1.0	<1.0	8.0	0.024	4.0	108.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (17)

No.	Element / Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
701	KYC-26	14.0	<0.2	<2.0	160.0	6.91	<1.0	<1.0	6.0	0.029	2.0	106.0
702	KYC-27	13.0	<0.2	<2.0	157.0	7.06	<1.0	1.0	2.0	0.037	4.0	108.0
703	KYC-28	13.0	<0.2	<2.0	161.0	7.10	<1.0	<1.0	<2.0	0.031	2.0	96.0
704	KYC-29	159.0	<0.2	<2.0	181.0	7.73	<1.0	1.0	<2.0	0.038	<2.0	90.0
705	KYC-30	146.0	<0.2	<2.0	162.0	8.10	<1.0	1.0	2.0	0.032	4.0	74.0
706	KYC-31	109.0	<0.2	<2.0	155.0	8.67	<1.0	1.0	<2.0	0.026	2.0	42.0
707	KYC-32	29.0	0.2	<2.0	172.0	7.54	<1.0	<1.0	<2.0	0.025	6.0	86.0
708	KYC-33	24.0	<0.2	<2.0	165.0	7.20	<1.0	1.0	2.0	0.027	6.0	90.0
709	KYC-34	7.0	<0.2	<2.0	146.0	6.61	<1.0	1.0	2.0	0.027	4.0	104.0
710	KYC-35	52.0	<0.2	<2.0	165.0	7.23	<1.0	<1.0	4.0	0.019	<2.0	98.0
711	KYC-36	4.0	<0.2	<2.0	131.0	6.96	<1.0	<1.0	4.0	0.034	2.0	78.0
712	KYC-37	35.0	<0.2	<2.0	164.0	7.51	<1.0	1.0	8.0	0.030	2.0	82.0
713	KYC-38	5.0	<0.2	<2.0	157.0	8.15	<1.0	1.0	8.0	0.031	4.0	84.0
714	KYC-39	8.0	<0.2	<2.0	193.0	8.58	<1.0	2.0	4.0	0.031	2.0	98.0
715	KYC-40	3.0	<0.2	<2.0	128.0	7.71	<1.0	<1.0	<2.0	0.034	2.0	48.0
716	KYC-41	3.0	<0.2	<2.0	140.0	8.05	<1.0	1.0	<2.0	0.035	4.0	50.0
717	JYD-01	19.0	<0.2	10.0	108.0	8.83	<1.0	1.0	<2.0	0.040	4.0	32.0
718	JYD-02	26.0	<0.2	2.0	101.0	8.63	<1.0	1.0	2.0	0.029	2.0	30.0
719	JYD-03	25.0	<0.2	<2.0	97.0	8.43	<1.0	<1.0	2.0	0.030	8.0	24.0
720	JYD-04	17.0	<0.2	<2.0	111.0	8.84	<1.0	1.0	<2.0	0.029	6.0	24.0
721	JYD-05	24.0	<0.2	<2.0	128.0	8.20	<1.0	1.0	2.0	0.030	6.0	22.0
722	JYD-06	27.0	<0.2	<2.0	119.0	8.06	<1.0	1.0	<2.0	0.031	4.0	18.0
723	JYD-07	148.0	<0.2	<2.0	124.0	8.12	<1.0	1.0	4.0	0.029	4.0	22.0
724	JYD-08	5.0	<0.2	<2.0	159.0	7.13	<1.0	1.0	4.0	0.023	8.0	106.0
725	JYD-09	160.0	<0.2	<2.0	145.0	9.42	<1.0	<1.0	2.0	0.030	6.0	28.0
726	JYD-10	472.0	<0.2	<2.0	148.0	8.75	<1.0	1.0	<2.0	0.033	8.0	30.0
727	JYD-11	483.0	<0.2	<2.0	147.0	7.78	<1.0	<1.0	6.0	0.032	4.0	28.0
728	JYD-12	459.0	<0.2	<2.0	147.0	7.93	<1.0	<1.0	<2.0	0.041	4.0	28.0
729	JYD-13	295.0	<0.2	<2.0	179.0	9.57	<1.0	1.0	<2.0	0.035	2.0	32.0
730	JYD-14	307.0	<0.2	<2.0	147.0	9.43	<1.0	<1.0	<2.0	0.040	4.0	30.0
731	JYD-15	300.0	<0.2	<2.0	152.0	9.61	<1.0	<1.0	2.0	0.039	8.0	34.0
732	JYD-16	269.0	<0.2	<2.0	177.0	9.90	<1.0	<1.0	2.0	0.035	4.0	50.0
733	JYD-17	616.0	<0.2	<2.0	211.0	8.50	<1.0	<1.0	<2.0	0.027	4.0	74.0
734	JYD-18	195.0	<0.2	<2.0	203.0	8.98	<1.0	1.0	<2.0	0.031	12.0	100.0
735	JYD-19	231.0	<0.2	<2.0	196.0	9.09	<1.0	<1.0	<2.0	0.030	6.0	106.0
736	JYD-20	268.0	<0.2	<2.0	184.0	8.47	<1.0	1.0	<2.0	0.029	6.0	90.0
737	JYD-21	437.0	<0.2	<2.0	207.0	8.75	<1.0	1.0	<2.0	0.031	2.0	96.0
738	JYD-22	268.0	<0.2	<2.0	252.0	8.39	<1.0	1.0	<2.0	0.028	6.0	108.0
739	JYD-23	113.0	<0.2	<2.0	199.0	8.74	<1.0	<1.0	<2.0	0.032	4.0	150.0
740	JYD-24	140.0	<0.2	<2.0	213.0	8.81	<1.0	1.0	<2.0	0.037	2.0	94.0
741	JYD-25	117.0	<0.2	<2.0	224.0	8.37	<1.0	1.0	<2.0	0.033	4.0	84.0
742	JYD-26	78.0	0.2	<2.0	233.0	8.40	<1.0	1.0	<2.0	0.030	6.0	104.0
743	JYD-27	100.0	<0.2	<2.0	192.0	8.25	<1.0	1.0	<2.0	0.034	2.0	46.0
744	JYD-28	117.0	<0.2	<2.0	211.0	8.23	<1.0	1.0	4.0	0.032	4.0	50.0
745	JYD-29	128.0	<0.2	<2.0	177.0	7.63	<1.0	<1.0	2.0	0.030	2.0	42.0
746	JYD-30	163.0	0.2	<2.0	202.0	7.93	<1.0	<1.0	<2.0	0.036	<2.0	52.0
747	JYD-31	185.0	<0.2	<2.0	214.0	8.22	<1.0	1.0	<2.0	0.033	2.0	56.0
748	JYD-32	206.0	<0.2	<2.0	200.0	8.00	<1.0	1.0	<2.0	0.030	<2.0	66.0
749	JYD-33	181.0	<0.2	<2.0	146.0	8.13	<1.0	<1.0	<2.0	0.034	4.0	30.0
750	JYD-34	11.0	<0.2	<2.0	136.0	6.69	<1.0	<1.0	<2.0	0.034	4.0	58.0
751	JYD-35	9.0	<0.2	<2.0	165.0	7.83	<1.0	2.0	<2.0	0.035	6.0	70.0
752	JYD-36	5.0	<0.2	<2.0	155.0	7.45	<1.0	1.0	<2.0	0.039	2.0	58.0
753	JYD-37	6.0	<0.2	<2.0	171.0	8.46	<1.0	<1.0	2.0	0.036	6.0	42.0
754	JYD-38	4.0	<0.2	<2.0	175.0	8.33	<1.0	<1.0	<2.0	0.038	4.0	52.0
755	JYD-39	4.0	<0.2	<2.0	140.0	8.00	<1.0	2.0	4.0	0.053	2.0	30.0
756	JYD-40	20.0	<0.2	<2.0	122.0	7.25	<1.0	1.0	<2.0	0.035	2.0	30.0
757	JYD-41	3.0	<0.2	<2.0	169.0	8.48	<1.0	1.0	2.0	0.036	2.0	48.0
758	EYE-01	54.0	<0.2	<2.0	103.0	8.68	<1.0	<1.0	<2.0	0.027	6.0	24.0
759	EYE-02	71.0	<0.2	<2.0	135.0	9.04	<1.0	<1.0	<2.0	0.028	6.0	34.0
760	EYE-03	108.0	<0.2	<2.0	135.0	9.06	<1.0	<1.0	<2.0	0.030	6.0	44.0
761	EYE-04	58.0	<0.2	<2.0	126.0	8.55	<1.0	<1.0	<2.0	0.026	6.0	44.0
762	EYE-05	95.0	<0.2	<2.0	147.0	9.52	<1.0	1.0	2.0	0.025	6.0	62.0
763	EYE-06	114.0	<0.2	<2.0	140.0	8.80	<1.0	<1.0	6.0	0.026	4.0	46.0
764	EYE-07	117.0	<0.2	<2.0	157.0	9.55	<1.0	1.0	<2.0	0.025	2.0	52.0
765	EYE-08	93.0	<0.2	4.0	217.0	8.54	<1.0	2.0	<2.0	0.028	4.0	82.0
766	EYE-09	162.0	0.2	<2.0	163.0	9.45	<1.0	1.0	4.0	0.027	4.0	68.0
767	EYE-10	422.0	<0.2	<2.0	183.0	9.09	<1.0	2.0	2.0	0.028	2.0	46.0
768	EYE-11	1035.0	<0.2	<2.0	171.0	9.34	<1.0	<1.0	<2.0	0.028	4.0	42.0
769	EYE-12	1850.0	<0.2	<2.0	213.0	9.99	<1.0	<1.0	<2.0	0.027	2.0	62.0
770	EYE-13	433.0	<0.2	<2.0	202.0	9.02	<1.0	<1.0	<2.0	0.021	6.0	56.0
771	EYE-14	162.0	<0.2	<2.0	192.0	8.64	<1.0	1.0	2.0	0.026	4.0	60.0
772	EYE-15	93.0	<0.2	<2.0	175.0	8.08	<1.0	<1.0	<2.0	0.028	8.0	64.0
773	EYE-16	170.0	<0.2	<2.0	169.0	8.36	<1.0	<1.0	2.0	0.025	<2.0	66.0
774	EYE-17	228.0	<0.2	<2.0	170.0	7.73	<1.0	1.0	<2.0	0.031	<2.0	72.0
775	EYE-18	481.0	<0.2	<2.0	159.0	8.58	<1.0	1.0	<2.0	0.030	6.0	58.0
776	EYE-19	416.0	<0.2	<2.0	141.0	7.58	<1.0	<1.0	<2.0	0.040	6.0	42.0
777	EYE-20	94.0	<0.2	<2.0	149.0	7.30	<1.0	<1.0	<2.0	0.035	4.0	58.0
778	EYE-21	90.0	<0.2	4.0	162.0	7.84	<1.0	<1.0	<2.0	0.033	<2.0	48.0
779	JYE-22	95.0	<0.2	<2.0	169.0	8.23	<1.0	1.0	6.0	0.036	8.0	46.0
780	JYE-23	46.0	<0.2	<2.0	177.0	8.22	<1.0	<1.0	<2.0	0.040	6.0	60.0
781	JYE-24	16.0	<0.2	<2.0	189.0	7.81	<1.0	<1.0	<2.0	0.032	2.0	86.0
782	JYE-25	14.0	<0.2	<2.0	157.0	7.05	<1.0	1.0	<2.0	0.029	<2.0	82.0
783	JYE-26	21.0	<0.2	<2.0	157.0	6.92	<1.0	1.0	<2.0	0.034	2.0	56.0
784	JYE-27	25.0	<0.2	<2.0	146.0	6.69	<1.0	1.0	<2.0	0.031	6.0	48.0
785	JYE-28	17.0	<0.2	<2.0	146.0	6.30	<1.0	<1.0	<2.0	0.031	2.0	58.0
786	JYE-29	23.0	<0.2	<2.0	161.0	6.65	<1.0	<1.0	<2.0	0.030	4.0	64.0
787	JYE-30	21.0	<0.2	<2.0	189.0	7.60	<1.0	<1.0	<2.0	0.034	<2.0	52.0
788	JYE-31	37.0	<0.2	<2.0	192.0	7.31	<1.0	<1.0	<2.0	0.033	4.0	94.0
789	JYE-32	3.0	<0.2	<2.0	161.0	7.14	<1.0	<1.0	<2.0	0.022	2.0	100.0
790	JYE-33	<1.0	0.2	<2.0	152.0	6.71	<1.0	<1.0	<2.0	0.028	2.0	102.0
791	JYE-34	5.0	<0.2	<2.0	153.0	7.29	<1.0	<1.0	<2.0	0.017	6.0	134.0
792	JYE-35	8.0	0.2	<2.0	149.0	7.03	<1.0	<1.0	<2.0	0.022	6.0	88.0
793	JYE-36	4.0	0.2	<2.0	147.0	6.72	<1.0	<1.0	<2.0	0.031	2.0	104.0
794	JYE-37	7.0	0.2	<2.0	149.0	6.76	<1.0	<1.0	<2.0	0.025	2.0	104.0
795	JYE-38	42.0	<0.2	<2.0	158.0	7.36	<1.0	<1.0	<2.0	0.027	2.0	98.0
796	JYE-39	<1.0	0.2	<2.0	170.0	7.76	<1.0	<1.0	<2.0	0.039	4.0	102.0
797	JYE-40	3.0	<0.2	<2.0	167.0	8.24	<1.0	<1.0	<2.0	0.042	2.0	82.0
798	JYE-41	<1.0	<0.2	<2.0	194.0	8.01	<1.0	<1.0	<2.0	0.024	6.0	82.0
799	JYF-01	62.0	<0.2	<2.0	115.0	7.98	<1.0	<1.0	<2.0	0.028	4.0	22.0
800	JYF-02	62.0	<0.2	<2.0	117.0	8.44	<1.0	<1.0	2.0	0.032	4.0	26.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (18)

No.	Element	Au	Ag	As	Cu	Fe	Hg	Mo	Pb	S %	Sb	Zn
	Units	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	Total	ppm	ppm
801	JYF-03	66.0	<0.2	<2.0	131.0	7.85	<1.0	<1.0	<2.0	0.026	4.0	30.0
802	JYF-04	171.0	<0.2	<2.0	73.0	7.56	<1.0	<1.0	<2.0	0.025	4.0	10.0
803	JYF-05	176.0	<0.2	<2.0	70.0	7.79	<1.0	<1.0	<2.0	0.023	4.0	10.0
804	JYF-06	236.0	<0.2	<2.0	131.0	8.23	<1.0	<1.0	<2.0	0.026	8.0	24.0
805	JYF-07	103.0	<0.2	<2.0	119.0	8.53	<1.0	<1.0	10.0	0.030	8.0	32.0
806	JYF-08	40.0	<0.2	<2.0	158.0	8.69	<1.0	<1.0	<2.0	0.027	2.0	28.0
807	JYF-09	49.0	<0.2	<2.0	129.0	7.77	<1.0	<1.0	<2.0	0.031	4.0	22.0
808	JYF-10	95.0	<0.2	<2.0	120.0	8.86	<1.0	<1.0	<2.0	0.025	4.0	14.0
809	JYF-11	104.0	<0.2	<2.0	145.0	7.93	<1.0	<1.0	<2.0	0.033	<2.0	28.0
810	JYF-12	149.0	<0.2	<2.0	137.0	7.42	<1.0	<1.0	<2.0	0.034	2.0	24.0
811	JYF-13	164.0	<0.2	<2.0	149.0	8.42	<1.0	<1.0	<2.0	0.036	4.0	26.0
812	JYF-14	163.0	<0.2	<2.0	163.0	9.14	<1.0	<1.0	<2.0	0.036	2.0	26.0
813	JYF-15	142.0	<0.2	<2.0	181.0	9.47	<1.0	<1.0	<2.0	0.034	2.0	30.0
814	JYF-16	199.0	<0.2	<2.0	161.0	9.38	<1.0	<1.0	<2.0	0.039	4.0	28.0
815	JYF-17	214.0	<0.2	<2.0	149.0	8.36	<1.0	<1.0	<2.0	0.030	2.0	34.0
816	JYF-18	44.0	<0.2	<2.0	141.0	7.00	<1.0	<1.0	<2.0	0.038	<2.0	58.0
817	JYF-19	86.0	<0.2	<2.0	184.0	8.21	<1.0	<1.0	<2.0	0.031	10.0	60.0
818	JYF-20	83.0	<0.2	<2.0	182.0	8.12	<1.0	<1.0	<2.0	0.043	4.0	62.0
819	JYF-21	51.0	<0.2	<2.0	186.0	8.07	<1.0	<1.0	<2.0	0.034	4.0	70.0
820	JYF-22	45.0	<0.2	<2.0	189.0	8.01	<1.0	<1.0	<2.0	0.026	4.0	92.0
821	JYF-23	19.0	<0.2	<2.0	182.0	7.67	<1.0	<1.0	<2.0	0.029	2.0	88.0
822	JYF-24	9.0	<0.2	<2.0	177.0	7.18	<1.0	<1.0	<2.0	0.025	4.0	104.0
823	JYF-25	22.0	<0.2	<2.0	182.0	6.92	<1.0	<1.0	<2.0	0.029	2.0	98.0
824	JYF-26	19.0	<0.2	<2.0	174.0	6.88	<1.0	<1.0	<2.0	0.027	2.0	86.0
825	JYF-27	36.0	<0.2	<2.0	163.0	6.64	<1.0	<1.0	<2.0	0.031	2.0	88.0
826	JYF-28	11.0	<0.2	<2.0	200.0	7.87	<1.0	<1.0	<2.0	0.015	4.0	114.0
827	JYF-29	13.0	<0.2	<2.0	160.0	7.15	<1.0	<1.0	<2.0	0.024	4.0	100.0
828	JYF-30	7.0	<0.2	<2.0	162.0	7.35	<1.0	<1.0	<2.0	0.023	4.0	104.0
829	JYF-31	9.0	<0.2	<2.0	168.0	7.24	<1.0	<1.0	<2.0	0.027	4.0	108.0
830	JYF-32	9.0	<0.2	<2.0	169.0	8.08	<1.0	<1.0	<2.0	0.036	6.0	90.0
831	JYF-33	9.0	<0.2	<2.0	202.0	8.64	<1.0	<1.0	<2.0	0.034	4.0	124.0
832	JYF-34	7.0	<0.2	<2.0	178.0	8.22	<1.0	<1.0	<2.0	0.031	4.0	144.0
833	JYF-35	7.0	0.2	<2.0	195.0	7.69	<1.0	<1.0	<2.0	0.019	8.0	150.0
834	JYF-36	9.0	<0.2	<2.0	195.0	8.46	<1.0	<1.0	<2.0	0.031	6.0	86.0
835	JYF-37	7.0	<0.2	<2.0	168.0	8.28	<1.0	<1.0	<2.0	0.024	4.0	78.0
836	JYF-38	<1.0	<0.2	<2.0	183.0	8.23	<1.0	<1.0	<2.0	0.031	2.0	82.0
837	JYF-39	<1.0	<0.2	<2.0	189.0	8.68	<1.0	<1.0	<2.0	0.025	8.0	64.0
838	JYF-40	<1.0	<0.2	<2.0	177.0	8.43	<1.0	<1.0	<2.0	0.027	2.0	66.0
839	JYF-41	1.0	<0.2	<2.0	170.0	7.55	<1.0	<1.0	<2.0	0.020	2.0	120.0
840	EYG-01	693.0	<0.2	<2.0	126.0	8.89	<1.0	<1.0	<2.0	0.024	2.0	18.0
841	EYG-02	828.0	0.2	<2.0	121.0	7.71	<1.0	<1.0	<2.0	0.024	2.0	20.0
842	EYG-03	303.0	<0.2	<2.0	154.0	8.73	<1.0	<1.0	<2.0	0.023	8.0	30.0
843	EYG-04	174.0	0.2	<2.0	153.0	8.55	<1.0	<1.0	<2.0	0.029	4.0	34.0
844	EYG-05	115.0	<0.2	<2.0	148.0	8.02	<1.0	<1.0	<2.0	0.031	4.0	42.0
845	EYG-06	111.0	<0.2	<2.0	158.0	8.17	<1.0	<1.0	<2.0	0.029	4.0	40.0
846	EYG-07	83.0	<0.2	<2.0	125.0	7.35	<1.0	<1.0	<2.0	0.026	4.0	24.0
847	EYG-08	33.0	<0.2	<2.0	110.0	6.66	<1.0	<1.0	<2.0	0.026	4.0	20.0
848	EYG-09	18.0	<0.2	<2.0	145.0	7.06	<1.0	<1.0	<2.0	0.034	6.0	36.0
849	EYG-10	14.0	<0.2	<2.0	168.0	7.25	<1.0	<1.0	<2.0	0.031	6.0	54.0
850	EYG-11	100.0	<0.2	<2.0	137.0	6.35	<1.0	<1.0	<2.0	0.031	4.0	48.0
851	EYG-12	39.0	<0.2	<2.0	130.0	6.25	<1.0	<1.0	<2.0	0.029	6.0	50.0
852	EYG-13	85.0	<0.2	<2.0	133.0	6.55	<1.0	<1.0	<2.0	0.035	<2.0	50.0
853	EYG-14	126.0	<0.2	<2.0	140.0	6.64	<1.0	<1.0	<2.0	0.034	2.0	70.0
854	EYG-15	72.0	<0.2	<2.0	172.0	7.59	<1.0	<1.0	<2.0	0.033	2.0	94.0
855	EYG-16	35.0	<0.2	<2.0	163.0	7.43	<1.0	<1.0	<2.0	0.030	4.0	114.0
856	EYG-17	8.0	<0.2	<2.0	172.0	7.96	<1.0	<1.0	<2.0	0.041	4.0	110.0
857	EYG-18	1.0	<0.2	<2.0	188.0	8.09	<1.0	<1.0	<2.0	0.033	8.0	126.0
858	EYG-19	<1.0	0.2	<2.0	188.0	8.08	<1.0	<1.0	<2.0	0.031	<2.0	120.0
859	EYG-20	2.0	<0.2	<2.0	173.0	7.85	<1.0	<1.0	<2.0	0.035	6.0	92.0
860	EYG-21	<1.0	<0.2	<2.0	184.0	8.23	<1.0	<1.0	<2.0	0.040	2.0	92.0
861	EYG-22	3.0	0.2	<2.0	192.0	8.17	<1.0	<1.0	<2.0	0.040	2.0	108.0
862	EYG-23	6.0	<0.2	<2.0	209.0	8.69	<1.0	<1.0	<2.0	0.030	<2.0	122.0
863	EYG-24	2.0	<0.2	<2.0	179.0	7.15	<1.0	<1.0	<2.0	0.040	6.0	122.0
864	EYG-25	1.0	<0.2	<2.0	182.0	7.59	<1.0	<1.0	<2.0	0.028	2.0	122.0
865	EYG-26	<1.0	<0.2	<2.0	175.0	6.76	<1.0	<1.0	<2.0	0.024	<2.0	106.0
866	EYG-27	<1.0	<0.2	<2.0	179.0	7.50	<1.0	<1.0	<2.0	0.023	6.0	112.0
867	EYG-28	4.0	<0.2	<2.0	177.0	7.79	<1.0	<1.0	<2.0	0.006	2.0	138.0
868	EYG-29	6.0	<0.2	<2.0	189.0	8.17	<1.0	<1.0	<2.0	0.024	2.0	118.0
869	EYG-30	3.0	<0.2	<2.0	190.0	8.42	<1.0	<1.0	<2.0	0.025	4.0	114.0
870	EYG-31	5.0	<0.2	<2.0	208.0	8.49	<1.0	<1.0	<2.0	0.037	8.0	132.0
871	EYG-32	7.0	<0.2	<2.0	149.0	7.79	<1.0	<1.0	<2.0	0.037	2.0	50.0
872	EYG-33	6.0	<0.2	<2.0	148.0	7.53	<1.0	<1.0	<2.0	0.036	6.0	64.0
873	EYG-34	6.0	<0.2	<2.0	173.0	7.87	<1.0	<1.0	<2.0	0.042	<2.0	112.0
874	EYG-35	15.0	<0.2	<2.0	149.0	7.32	<1.0	<1.0	<2.0	0.042	2.0	70.0
875	EYG-36	7.0	0.2	<2.0	148.0	7.86	<1.0	<1.0	<2.0	0.040	4.0	78.0
876	EYG-37	2.0	<0.2	<2.0	164.0	7.66	<1.0	1.0	<2.0	0.053	<2.0	116.0
877	EYG-38	3.0	<0.2	<2.0	161.0	7.68	<1.0	1.0	<2.0	0.056	<2.0	96.0
878	EYG-39	<1.0	<0.2	<2.0	164.0	7.67	<1.0	1.0	<2.0	0.046	<2.0	112.0
879	EYG-40	3.0	<0.2	<2.0	169.0	7.28	<1.0	<1.0	<2.0	0.051	<2.0	114.0
880	EYG-41	5.0	<0.2	<2.0	186.0	7.75	<1.0	<1.0	<2.0	0.037	<2.0	132.0
881	EYH-01	329.0	<0.2	<2.0	104.0	7.37	<1.0	<1.0	<2.0	0.041	<2.0	18.0
882	EYH-02	325.0	<0.2	<2.0	133.0	8.12	<1.0	<1.0	<2.0	0.027	<2.0	32.0
883	EYH-03	99.0	<0.2	<2.0	163.0	9.02	<1.0	1.0	<2.0	0.032	<2.0	54.0
884	EYH-04	189.0	<0.2	<2.0	123.0	8.44	<1.0	<1.0	<2.0	0.039	<2.0	30.0
885	EYH-05	66.0	<0.2	<2.0	131.0	8.10	<1.0	<1.0	<2.0	0.031	<2.0	28.0
886	EYH-06	18.0	<0.2	<2.0	131.0	8.84	<1.0	<1.0	<2.0	0.034	<2.0	34.0
887	EYH-07	37.0	<0.2	<2.0	153.0	9.12	<1.0	1.0	<2.0	0.030	<2.0	66.0
888	EYH-08	9.0	<0.2	<2.0	180.0	7.96	<1.0	<1.0	<2.0	0.027	<2.0	98.0
889	EYH-09	25.0	<0.2	<2.0	165.0	8.41	<1.0	<1.0	<2.0	0.031	<2.0	72.0
890	EYH-10	17.0	<0.2	<2.0	157.0	7.13	<1.0	<1.0	<2.0	0.035	<2.0	80.0
891	EYH-11	136.0	<0.2	<2.0	180.0	7.07	<1.0	1.0	<2.0	0.025	<2.0	86.0
892	EYH-12	148.0	<0.2	<2.0	163.0	7.61	<1.0	1.0	<2.0	0.034	<2.0	58.0
893	EYH-13	203.0	<0.2	<2.0	182.0	8.47	<1.0	1.0	<2.0	0.032	<2.0	42.0
894	EYH-14	503.0	<0.2	<2.0	135.0	8.28	<1.0	1.0	<2.0	0.032	<2.0	26.0
895	EYH-15	526.0	<0.2	<2.0	140.0	7.74	<1.0	<1.0	<2.0	0.032	<2.0	30.0
896	EYH-16	710.0	<0.2	<2.0	147.0	8.24	<1.0	1.0	<2.0	0.037	<2.0	42.0
897	EYH-17	489.0	<0.2	<2.0	163.0	8.37	<1.0	<1.0	<2.0	0.032	<2.0	34.0
898	EYH-18	287.0	<0.2	<2.0	152.0	8.35	<1.0	<1.0	<2.0	0.035	<2.0	32.0
899	EYH-19	243.0	<0.2	<2.0	149.0	8.71	<1.0	2.0	<2.0	0.037	<2.0	28.0
900	EYH-20	93.0	<0.2	<2.0	193.0	8.48	<1.0	<1.0	<2.0	0.035	<2.0	42.0

Appendix-4 Chemical Analysis of Stream Sediments and Soil Samples (19)

No.	Element Units	Au ppb	Ag ppm	As ppm	Cu ppm	Fe %	Hg ppm	Mo ppm	Pb ppm	S % Total	Sb ppm	Zn ppm
901	EYH-21	105.0	<0.2	<2.0	180.0	9.21	<1.0	1.0	<2.0	0.034	<2.0	44.0
902	EYH-22	105.0	<0.2	<2.0	191.0	9.00	<1.0	<1.0	<2.0	0.033	<2.0	36.0
903	EYH-23	147.0	<0.2	<2.0	223.0	9.50	<1.0	1.0	<2.0	0.031	<2.0	38.0
904	EYH-24	161.0	<0.2	<2.0	226.0	9.39	<1.0	<1.0	<2.0	0.031	<2.0	36.0
905	EYH-25	162.0	<0.2	<2.0	195.0	9.09	<1.0	<1.0	<2.0	0.031	<2.0	36.0
906	EYH-26	86.0	<0.2	<2.0	197.0	8.97	<1.0	<1.0	<2.0	0.030	<2.0	76.0
907	EYH-27	60.0	<0.2	<2.0	182.0	8.84	<1.0	<1.0	<2.0	0.032	<2.0	66.0
908	EYH-28	74.0	<0.2	<2.0	172.0	8.75	<1.0	1.0	<2.0	0.032	<2.0	50.0
909	EYH-29	207.0	<0.2	<2.0	187.0	8.14	<1.0	1.0	<2.0	0.030	<2.0	56.0
910	EYH-30	291.0	<0.2	<2.0	205.0	8.40	<1.0	1.0	<2.0	0.030	<2.0	50.0
911	EYH-31	248.0	<0.2	<2.0	156.0	7.56	<1.0	<1.0	<2.0	0.034	<2.0	36.0
912	EYH-32	192.0	<0.2	<2.0	145.0	7.12	<1.0	<1.0	<2.0	0.030	<2.0	30.0
913	EYH-33	148.0	<0.2	<2.0	158.0	6.98	<1.0	<1.0	<2.0	0.028	<2.0	46.0
914	EYH-34	129.0	<0.2	<2.0	222.0	7.89	<1.0	<1.0	<2.0	0.027	<2.0	74.0
915	EYH-35	23.0	<0.2	<2.0	189.0	8.21	<1.0	1.0	<2.0	0.039	<2.0	44.0
916	EYH-36	7.0	<0.2	<2.0	166.0	7.25	<1.0	<1.0	<2.0	0.040	<2.0	40.0
917	EYH-37	4.0	<0.2	<2.0	172.0	7.94	<1.0	1.0	<2.0	0.040	<2.0	36.0
918	EYH-38	<1.0	<0.2	<2.0	159.0	8.31	<1.0	1.0	<2.0	0.032	<2.0	34.0
919	EYH-39	<1.0	<0.2	<2.0	184.0	8.25	<1.0	<1.0	<2.0	0.036	<2.0	54.0
920	EYH-40	3.0	<0.2	<2.0	173.0	7.62	<1.0	<1.0	<2.0	0.032	<2.0	68.0
921	EYH-41	5.0	<0.2	<2.0	184.0	7.66	<1.0	<1.0	<2.0	0.032	<2.0	46.0

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