

**Au-Cu ore, CRM, Matrix: quartz monzonite, Mineralisation Style: Porphyry copper-gold ore**

Art. ID                    OREAS-501d-500G  
Unit                      500 g  
Deliverydetails        No Dangerous Good /not restricted

**Description**

OREAS-501d was prepared from a blend of porphyry copper-gold ores, barren granodiorite and a minor quantity of Cu-Mo concentrate. The ores were sourced from both the Ridgeway Mine and Northparkes Mine. Both mines are located in the Central West of New South Wales, Australia. The barren granodiorite was sourced from the mafic, S-Type, Late Devonian Bulla Granodiorite complex located in northern Melbourne, Australia.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Value	Gold (Au)	[7440-57-5]	0,232	ppm	Pb Fire Assay	
Certified Value	Copper (Cu)	[7440-50-8]	0,272	%	4-Acid Digestion	
Certified Value	Molybdenum (Mo)	[7439-98-7]	95	ppm	4-Acid Digestion	
Certified Value	Gold (Au)	[7440-57-5]	0,232	ppm	Aqua Regia Digestion (sample weights 10-50g)	
Certified Value	Sulfur (S)	[7704-34-9]	0,375	%	Infrared Combustion	
Certified Value	Silver (Ag)	[7440-22-4]	0,664	ppm	4-Acid Digestion	
Certified Value	Aluminium (Al)	[7429-90-5]	7,69	%	4-Acid Digestion	
Certified Value	Arsenic (As)	[7440-38-2]	15,1	ppm	4-Acid Digestion	
Certified Value	Barium (Ba)	[7440-39-3]	1032	ppm	4-Acid Digestion	
Certified Value	Beryllium (Be)	[7440-41-7]	2,65	ppm	4-Acid Digestion	
Certified Value	Bismuth (Bi)	[7440-69-9]	1,26	ppm	4-Acid Digestion	
Certified Value	Calcium (Ca)	[7440-70-2]	1,85	%	4-Acid Digestion	

Certified Value	Cadmium (Cd)	[7440-43-9]	0,3	ppm	4-Acid Digestion
Certified Value	Cerium (Ce)	[7440-45-1]	73	ppm	4-Acid Digestion
Certified Value	Cobalt (Co)	[7440-48-4]	9,57	ppm	4-Acid Digestion
Certified Value	Chromium (Cr)	[7440-47-3]	45,4	ppm	4-Acid Digestion
Certified Value	Caesium (Cs)	[7440-46-2]	10,7	ppm	4-Acid Digestion
Certified Value	Dysprosium (Dy)	[7429-91-6]	3,76	ppm	4-Acid Digestion
Certified Value	Erbium (Er)	[7440-52-0]	1,49	ppm	4-Acid Digestion
Certified Value	Europium (Eu)	[7440-53-1]	1,44	ppm	4-Acid Digestion
Certified Value	Iron (Fe)	[7439-89-6]	3,37	%	4-Acid Digestion
Certified Value	Gallium (Ga)	[7440-55-3]	20,8	ppm	4-Acid Digestion
Certified Value	Gadolinium (Gd)	[7440-54-2]	5,89	ppm	4-Acid Digestion
Certified Value	Hafnium (Hf)	[7440-58-6]	2	ppm	4-Acid Digestion
Certified Value	Holmium (Ho)	[7440-60-0]	0,62	ppm	4-Acid Digestion
Certified Value	Indium (In)	[7440-74-6]	0,086	ppm	4-Acid Digestion
Certified Value	Potassium (K)	[7440-09-7]	3,01	%	4-Acid Digestion
Certified Value	Lanthanum (La)	[7439-91-0]	34,8	ppm	4-Acid Digestion
Certified Value	Lithium (Li)	[7439-93-2]	51	ppm	4-Acid Digestion
Certified Value	Lutetium (Lu)	[7439-94-3]	0,19	ppm	4-Acid Digestion
Certified Value	Magnesium (Mg)	[7439-95-4]	0,827	%	4-Acid Digestion

Certified Value	Manganese (Mn)	[7439-96-5]	0,037	%	4-Acid Digestion
Certified Value	Sodium (Na)	[7440-23-5]	2,07	%	4-Acid Digestion
Certified Value	Niobium (Nb)	[7440-03-1]	12,2	ppm	4-Acid Digestion
Certified Value	Neodymium (Nd)	[7440-00-8]	32,6	ppm	4-Acid Digestion
Certified Value	Nickel (Ni)	[7440-02-0]	0,002	%	4-Acid Digestion
Certified Value	Phosphorus (P)	[7723-14-0]	0,087	%	4-Acid Digestion
Certified Value	Lead (Pb)	[7439-92-1]	25,2	ppm	4-Acid Digestion
Certified Value	Praseodymium (Pr)	[7440-10-0]	8,37	ppm	4-Acid Digestion
Certified Value	Rubidium (Rb)	[7440-17-7]	164	ppm	4-Acid Digestion
Certified Value	Rhenium (Re)	[7440-15-5]	0,049	ppm	4-Acid Digestion
Certified Value	Sulfur (S)	[7704-34-9]	0,38	%	4-Acid Digestion
Certified Value	Antimony (Sb)	[7440-36-0]	2,25	ppm	4-Acid Digestion
Certified Value	Scandium (Sc)	[7440-20-2]	9,47	ppm	4-Acid Digestion
Certified Value	Samarium (Sm)	[7440-19-9]	6,79	ppm	4-Acid Digestion
Certified Value	Tin (Sn)	[7440-31-5]	4,86	ppm	4-Acid Digestion
Certified Value	Strontium (Sr)	[7440-24-6]	212	ppm	4-Acid Digestion
Certified Value	Tantalum (Ta)	[7440-25-7]	1,09	ppm	4-Acid Digestion
Certified Value	Terbium (Tb)	[7440-27-9]	0,76	ppm	4-Acid Digestion
Certified Value	Thorium (Th)	[7440-29-1]	14	ppm	4-Acid Digestion

Certified Value	Titanium (Ti)	[7440-32-6]	0,359	%	4-Acid Digestion
Certified Value	Thallium (Tl)	[7440-28-0]	0,91	ppm	4-Acid Digestion
Certified Value	Thulium (Tm)	[7440-30-4]	0,19	ppm	4-Acid Digestion
Certified Value	Uranium (U)	[7440-61-1]	3,88	ppm	4-Acid Digestion
Certified Value	Vanadium (V)	[7440-62-2]	71	ppm	4-Acid Digestion
Certified Value	Tungsten (W)	[7440-33-7]	8,56	ppm	4-Acid Digestion
Certified Value	Yttrium (Y)	[7440-65-5]	15,7	ppm	4-Acid Digestion
Certified Value	Ytterbium (Yb)	[7440-64-4]	1,22	ppm	4-Acid Digestion
Certified Value	Zinc (Zn)	[7440-66-6]	90	ppm	4-Acid Digestion
Certified Value	Zirconium (Zr)	[7440-67-7]	62	ppm	4-Acid Digestion
Certified Value	Silver (Ag)	[7440-22-4]	0,649	ppm	Aqua Regia Digestion
Certified Value	Aluminium (Al)	[7429-90-5]	1,96	%	Aqua Regia Digestion
Certified Value	Arsenic (As)	[7440-38-2]	14,1	ppm	Aqua Regia Digestion
Certified Value	Boron (B)	[7440-42-8]	< 10,0	ppm	Aqua Regia Digestion
Certified Value	Barium (Ba)	[7440-39-3]	468	ppm	Aqua Regia Digestion
Certified Value	Beryllium (Be)	[7440-41-7]	1,46	ppm	Aqua Regia Digestion
Certified Value	Bismuth (Bi)	[7440-69-9]	1,3	ppm	Aqua Regia Digestion
Certified Value	Calcium (Ca)	[7440-70-2]	0,58	%	Aqua Regia Digestion
Certified Value	Cadmium (Cd)	[7440-43-9]	0,18	ppm	Aqua Regia Digestion

Certified Value	Cerium (Ce)	[7440-45-1]	29,1	ppm	Aqua Regia Digestion
Certified Value	Cobalt (Co)	[7440-48-4]	9,28	ppm	Aqua Regia Digestion
Certified Value	Chromium (Cr)	[7440-47-3]	48,5	ppm	Aqua Regia Digestion
Certified Value	Caesium (Cs)	[7440-46-2]	8,35	ppm	Aqua Regia Digestion
Certified Value	Copper (Cu)	[7440-50-8]	0,27	%	Aqua Regia Digestion
Certified Value	Dysprosium (Dy)	[7429-91-6]	2,31	ppm	Aqua Regia Digestion
Certified Value	Erbium (Er)	[7440-52-0]	0,89	ppm	Aqua Regia Digestion
Certified Value	Europium (Eu)	[7440-53-1]	0,32	ppm	Aqua Regia Digestion
Certified Value	Iron (Fe)	[7439-89-6]	3,24	%	Aqua Regia Digestion
Certified Value	Gallium (Ga)	[7440-55-3]	9,21	ppm	Aqua Regia Digestion
Certified Value	Gadolinium (Gd)	[7440-54-2]	3,02	ppm	Aqua Regia Digestion
Certified Value	Hafnium (Hf)	[7440-58-6]	0,29	ppm	Aqua Regia Digestion
Certified Value	Holmium (Ho)	[7440-60-0]	0,39	ppm	Aqua Regia Digestion
Certified Value	Indium (In)	[7440-74-6]	0,074	ppm	Aqua Regia Digestion
Certified Value	Potassium (K)	[7440-09-7]	0,938	%	Aqua Regia Digestion
Certified Value	Lanthanum (La)	[7439-91-0]	13,6	ppm	Aqua Regia Digestion
Certified Value	Lithium (Li)	[7439-93-2]	40,8	ppm	Aqua Regia Digestion
Certified Value	Magnesium (Mg)	[7439-95-4]	0,761	%	Aqua Regia Digestion
Certified Value	Manganese (Mn)	[7439-96-5]	0,031	%	Aqua Regia Digestion

Certified Value	Molybdenum (Mo)	[7439-98-7]	93	ppm	Aqua Regia Digestion
Certified Value	Sodium (Na)	[7440-23-5]	0,146	%	Aqua Regia Digestion
Certified Value	Niobium (Nb)	[7440-03-1]	0,75	ppm	Aqua Regia Digestion
Certified Value	Nickel (Ni)	[7440-02-0]	0,002	%	Aqua Regia Digestion
Certified Value	Phosphorus (P)	[7723-14-0]	0,066	%	Aqua Regia Digestion
Certified Value	Lead (Pb)	[7439-92-1]	7,08	ppm	Aqua Regia Digestion
Certified Value	Praseodymium (Pr)	[7440-10-0]	3,3	ppm	Aqua Regia Digestion
Certified Value	Platinum (Pt)	[7440-06-4]	< 5,00	ppb	Aqua Regia Digestion
Certified Value	Rubidium (Rb)	[7440-17-7]	94	ppm	Aqua Regia Digestion
Certified Value	Rhenium (Re)	[7440-15-5]	0,047	ppm	Aqua Regia Digestion
Certified Value	Sulfur (S)	[7704-34-9]	0,383	%	Aqua Regia Digestion
Certified Value	Antimony (Sb)	[7440-36-0]	1,58	ppm	Aqua Regia Digestion
Certified Value	Scandium (Sc)	[7440-20-2]	8	ppm	Aqua Regia Digestion
Certified Value	Samarium (Sm)	[7440-19-9]	3,13	ppm	Aqua Regia Digestion
Certified Value	Tin (Sn)	[7440-31-5]	3,47	ppm	Aqua Regia Digestion
Certified Value	Strontium (Sr)	[7440-24-6]	40,8	ppm	Aqua Regia Digestion
Certified Value	Terbium (Tb)	[7440-27-9]	0,45	ppm	Aqua Regia Digestion
Certified Value	Tellurium (Te)	[13494-80-9]	0,2	ppm	Aqua Regia Digestion
Certified Value	Titanium (Ti)	[7440-32-6]	0,265	%	Aqua Regia Digestion

Certified Value	Thallium (Tl)	[7440-28-0]	0,6	ppm	Aqua Regia Digestion
Certified Value	Thulium (Tm)	[7440-30-4]	0,13	ppm	Aqua Regia Digestion
Certified Value	Uranium (U)	[7440-61-1]	3,32	ppm	Aqua Regia Digestion
Certified Value	Vanadium (V)	[7440-62-2]	65	ppm	Aqua Regia Digestion
Certified Value	Tungsten (W)	[7440-33-7]	5,36	ppm	Aqua Regia Digestion
Certified Value	Yttrium (Y)	[7440-65-5]	10,2	ppm	Aqua Regia Digestion
Certified Value	Ytterbium (Yb)	[7440-64-4]	0,75	ppm	Aqua Regia Digestion
Certified Value	Zinc (Zn)	[7440-66-6]	86	ppm	Aqua Regia Digestion
Certified Value	Gold (Au)	[7440-57-5]	0,0000232	%	Pb Fire As say
Certified Value	Molybdenum (Mo)	[7439-98-7]	0,0095	%	4-Acid Dig estion
Certified Value	Gold (Au)	[7440-57-5]	0,0000232	%	Aqua Regia Digestion (sample w eights 10- 50g)
Certified Value	Silver (Ag)	[7440-22-4]	0,0000664	%	4-Acid Dig estion
Certified Value	Arsenic (As)	[7440-38-2]	0,00151	%	4-Acid Dig estion
Certified Value	Barium (Ba)	[7440-39-3]	0,1032	%	4-Acid Dig estion
Certified Value	Beryllium (Be)	[7440-41-7]	0,000265	%	4-Acid Dig estion
Certified Value	Bismuth (Bi)	[7440-69-9]	0,000126	%	4-Acid Dig estion
Certified Value	Cadmium (Cd)	[7440-43-9]	0,00003	%	4-Acid Dig estion
Certified Value	Cerium (Ce)	[7440-45-1]	0,0073	%	4-Acid Dig

Certified Value	Cobalt (Co)	[7440-48-4]	0,000957	%	estion 4-Acid Dig
Certified Value	Chromium (Cr)	[7440-47-3]	0,00454	%	estion 4-Acid Dig
Certified Value	Caesium (Cs)	[7440-46-2]	0,00107	%	estion 4-Acid Dig
Certified Value	Dysprosium (Dy)	[7429-91-6]	0,000376	%	estion 4-Acid Dig
Certified Value	Erbium (Er)	[7440-52-0]	0,000149	%	estion 4-Acid Dig
Certified Value	Europium (Eu)	[7440-53-1]	0,000144	%	estion 4-Acid Dig
Certified Value	Gallium (Ga)	[7440-55-3]	0,00208	%	estion 4-Acid Dig
Certified Value	Gadolinium (Gd)	[7440-54-2]	0,000589	%	estion 4-Acid Dig
Certified Value	Hafnium (Hf)	[7440-58-6]	0,0002	%	estion 4-Acid Dig
Certified Value	Holmium (Ho)	[7440-60-0]	0,000062	%	estion 4-Acid Dig
Certified Value	Indium (In)	[7440-74-6]	0,0000086	%	estion 4-Acid Dig
Certified Value	Lanthanum (La)	[7439-91-0]	0,00348	%	estion 4-Acid Dig
Certified Value	Lithium (Li)	[7439-93-2]	0,0051	%	estion 4-Acid Dig
Certified Value	Lutetium (Lu)	[7439-94-3]	0,000019	%	estion 4-Acid Dig
Certified Value	Niobium (Nb)	[7440-03-1]	0,00122	%	estion 4-Acid Dig
Certified Value	Neodymium (Nd)	[7440-00-8]	0,00326	%	estion 4-Acid Dig
Certified Value	Lead (Pb)	[7439-92-1]	0,00252	%	estion 4-Acid Dig
Certified Value	Praseodymium (Pr)	[7440-10-0]	0,000837	%	estion 4-Acid Dig
Certified Value	Rubidium (Rb)	[7440-17-7]	0,0164	%	estion 4-Acid Dig



Certified Value	Rhenium (Re)	[7440-15-5]	0,0000049	%	estion 4-Acid Dig
Certified Value	Antimony (Sb)	[7440-36-0]	0,000225	%	estion 4-Acid Dig
Certified Value	Scandium (Sc)	[7440-20-2]	0,000947	%	estion 4-Acid Dig
Certified Value	Samarium (Sm)	[7440-19-9]	0,000679	%	estion 4-Acid Dig
Certified Value	Tin (Sn)	[7440-31-5]	0,000486	%	estion 4-Acid Dig
Certified Value	Strontium (Sr)	[7440-24-6]	0,0212	%	estion 4-Acid Dig
Certified Value	Tantalum (Ta)	[7440-25-7]	0,000109	%	estion 4-Acid Dig
Certified Value	Terbium (Tb)	[7440-27-9]	0,000076	%	estion 4-Acid Dig
Certified Value	Thorium (Th)	[7440-29-1]	0,0014	%	estion 4-Acid Dig
Certified Value	Thallium (Tl)	[7440-28-0]	0,000091	%	estion 4-Acid Dig
Certified Value	Thulium (Tm)	[7440-30-4]	0,000019	%	estion 4-Acid Dig
Certified Value	Uranium (U)	[7440-61-1]	0,000388	%	estion 4-Acid Dig
Certified Value	Vanadium (V)	[7440-62-2]	0,0071	%	estion 4-Acid Dig
Certified Value	Tungsten (W)	[7440-33-7]	0,000856	%	estion 4-Acid Dig
Certified Value	Yttrium (Y)	[7440-65-5]	0,00157	%	estion 4-Acid Dig
Certified Value	Ytterbium (Yb)	[7440-64-4]	0,000122	%	estion 4-Acid Dig
Certified Value	Zinc (Zn)	[7440-66-6]	0,009	%	estion 4-Acid Dig
Certified Value	Zirconium (Zr)	[7440-67-7]	0,0062	%	estion 4-Acid Dig
Certified Value	Silver (Ag)	[7440-22-4]	0,0000649	%	estion Aqua Regia

Certified Value	Arsenic (As)	[7440-38-2]	0,00141	%	Digestion Aqua Regia
Certified Value	Boron (B)	[7440-42-8]	<0,001	%	Digestion Aqua Regia
Certified Value	Barium (Ba)	[7440-39-3]	0,0468	%	Digestion Aqua Regia
Certified Value	Beryllium (Be)	[7440-41-7]	0,000146	%	Digestion Aqua Regia
Certified Value	Bismuth (Bi)	[7440-69-9]	0,00013	%	Digestion Aqua Regia
Certified Value	Cadmium (Cd)	[7440-43-9]	0,000018	%	Digestion Aqua Regia
Certified Value	Cerium (Ce)	[7440-45-1]	0,00291	%	Digestion Aqua Regia
Certified Value	Cobalt (Co)	[7440-48-4]	0,000928	%	Digestion Aqua Regia
Certified Value	Chromium (Cr)	[7440-47-3]	0,00485	%	Digestion Aqua Regia
Certified Value	Caesium (Cs)	[7440-46-2]	0,000835	%	Digestion Aqua Regia
Certified Value	Dysprosium (Dy)	[7429-91-6]	0,000231	%	Digestion Aqua Regia
Certified Value	Erbium (Er)	[7440-52-0]	0,000089	%	Digestion Aqua Regia
Certified Value	Europium (Eu)	[7440-53-1]	0,000032	%	Digestion Aqua Regia
Certified Value	Gallium (Ga)	[7440-55-3]	0,000921	%	Digestion Aqua Regia
Certified Value	Gadolinium (Gd)	[7440-54-2]	0,000302	%	Digestion Aqua Regia
Certified Value	Hafnium (Hf)	[7440-58-6]	0,000029	%	Digestion Aqua Regia
Certified Value	Holmium (Ho)	[7440-60-0]	0,000039	%	Digestion Aqua Regia
Certified Value	Indium (In)	[7440-74-6]	0,0000074	%	Digestion Aqua Regia
Certified Value	Lanthanum (La)	[7439-91-0]	0,00136	%	Digestion Aqua Regia

					Digestion
Certified Value	Lithium (Li)	[7439-93-2]	0,00408	%	Aqua Regia Digestion
Certified Value	Molybdenum (Mo)	[7439-98-7]	0,0093	%	Aqua Regia Digestion
Certified Value	Niobium (Nb)	[7440-03-1]	0,000075	%	Aqua Regia Digestion
Certified Value	Lead (Pb)	[7439-92-1]	0,000708	%	Aqua Regia Digestion
Certified Value	Praseodymium (Pr)	[7440-10-0]	0,00033	%	Aqua Regia Digestion
Certified Value	Platinum (Pt)	[7440-06-4]	<0,0000005	%	Aqua Regia Digestion
Certified Value	Rubidium (Rb)	[7440-17-7]	0,0094	%	Aqua Regia Digestion
Certified Value	Rhenium (Re)	[7440-15-5]	0,0000047	%	Aqua Regia Digestion
Certified Value	Antimony (Sb)	[7440-36-0]	0,000158	%	Aqua Regia Digestion
Certified Value	Scandium (Sc)	[7440-20-2]	0,0008	%	Aqua Regia Digestion
Certified Value	Samarium (Sm)	[7440-19-9]	0,000313	%	Aqua Regia Digestion
Certified Value	Tin (Sn)	[7440-31-5]	0,000347	%	Aqua Regia Digestion
Certified Value	Strontium (Sr)	[7440-24-6]	0,00408	%	Aqua Regia Digestion
Certified Value	Terbium (Tb)	[7440-27-9]	0,000045	%	Aqua Regia Digestion
Certified Value	Tellurium (Te)	[13494-80-9]	0,00002	%	Aqua Regia Digestion
Certified Value	Thallium (Tl)	[7440-28-0]	0,00006	%	Aqua Regia Digestion
Certified Value	Thulium (Tm)	[7440-30-4]	0,000013	%	Aqua Regia Digestion
Certified Value	Uranium (U)	[7440-61-1]	0,000332	%	Aqua Regia Digestion
Certified Value	Vanadium (V)	[7440-62-2]	0,0065	%	Aqua Regia

Certified Value	Tungsten (W)	[7440-33-7]	0,000536	%	Digestion Aqua Regia Digestion
Certified Value	Yttrium (Y)	[7440-65-5]	0,00102	%	Digestion Aqua Regia Digestion
Certified Value	Ytterbium (Yb)	[7440-64-4]	0,000075	%	Digestion Aqua Regia Digestion
Certified Value	Zinc (Zn)	[7440-66-6]	0,0086	%	Digestion Aqua Regia Digestion