

## **Gold Oxide Ore (Cortez Mine, Nevada, USA), CRM**

Art. ID	OREAS-273-60G
Unit	60 g (powder)
Deliverydetails	No Dangerous Good /not restricted

### Description

OREAS 273 was prepared from high-grade oxidised gold ore from the Cortez Mine located in Lander and Eureka County, Nevada, USA. The mine is located on the Carlin Trend approximately 75 miles (120 km) southwest of Elko and is owned by Nevada Gold Mines (operated by Barrick).

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
± standard deviation	Gold (Au)	[7440-57-5]	10,76 ± 0,334	ppm	Pb Fire Assay	
± standard deviation	Gold (Au)	[7440-57-5]	10,72 ± 0,26	ppm	X-ray Photon Assay	
± standard deviation	Silver (Ag)	[7440-22-4]	0,646 ± 0,027	ppm	4-Acid Digestion	
± standard deviation	Aluminium (Al)	[7429-90-5]	1,65 ± 0,097	%	4-Acid Digestion	
± standard deviation	Arsenic (As)	[7440-38-2]	1211 ± 69	ppm	4-Acid Digestion	
± standard deviation	Barium (Ba)	[7440-39-3]	44,3 ± 2,22	ppm	4-Acid Digestion	
± standard deviation	Beryllium (Be)	[7440-41-7]	0,54 ± 0,034	ppm	4-Acid Digestion	
± standard deviation	Bismuth (Bi)	[7440-69-9]	0,64 ± 0,033	ppm	4-Acid Digestion	
± standard deviation	Calcium (Ca)	[7440-70-2]	19,43 ± 1,221	%	4-Acid Digestion	
± standard deviation	Cadmium (Cd)	[7440-43-9]	0,42 ± 0,028	ppm	4-Acid Digestion	
± standard deviation	Cerium (Ce)	[7440-45-1]	22,8 ± 1,54	ppm	4-Acid Digestion	
± standard deviation	Cobalt (Co)	[7440-48-4]	2,21 ± 0,139	ppm	4-Acid Digestion	
± standard deviation	Chromium (Cr)	[7440-47-3]	32,9 ± 4,1	ppm	4-Acid Digestion	
± standard deviation	Caesium (Cs)	[7440-46-2]	3,05 ± 0,117	ppm	4-Acid Digestion	

± standard deviation	Copper (Cu)	[7440-50-8]	20,9 ± 1,48	ppm	4-Acid Digestion
± standard deviation	Dysprosium (Dy)	[7429-91-6]	2,95 ± 0,15	ppm	4-Acid Digestion
± standard deviation	Erbium (Er)	[7440-52-0]	1,83 ± 0,097	ppm	4-Acid Digestion
± standard deviation	Europium (Eu)	[7440-53-1]	0,56 ± 0,034	ppm	4-Acid Digestion
± standard deviation	Iron (Fe)	[7439-89-6]	0,784 ± 0,03	%	4-Acid Digestion
± standard deviation	Gallium (Ga)	[7440-55-3]	4,45 ± 0,35	ppm	4-Acid Digestion
± standard deviation	Gadolinium (Gd)	[7440-54-2]	2,88 ± 0,18	ppm	4-Acid Digestion
± standard deviation	Germanium (Ge)	[7440-56-4]	0,14 ± 0,03	ppm	4-Acid Digestion
± standard deviation	Hafnium (Hf)	[7440-58-6]	0,9 ± 0,072	ppm	4-Acid Digestion
± standard deviation	Holmium (Ho)	[7440-60-0]	0,63 ± 0,044	ppm	4-Acid Digestion
± standard deviation	Indium (In)	[7440-74-6]	0,035 ± 0,005	ppm	4-Acid Digestion
± standard deviation	Potassium (K)	[7440-09-7]	0,778 ± 0,043	%	4-Acid Digestion
± standard deviation	Lanthanum (La)	[7439-91-0]	18,7 ± 1,23	ppm	4-Acid Digestion
± standard deviation	Lithium (Li)	[7439-93-2]	11,8 ± 0,64	ppm	4-Acid Digestion
± standard deviation	Lutetium (Lu)	[7439-94-3]	0,22 ± 0,017	ppm	4-Acid Digestion
± standard deviation	Magnesium (Mg)	[7439-95-4]	5,19 ± 0,215	%	4-Acid Digestion
± standard deviation	Manganese (Mn)	[7439-96-5]	0,041 ± 0,001	%	4-Acid Digestion
± standard deviation	Molybdenum (Mo)	[7439-98-7]	7,42 ± 0,279	ppm	4-Acid Digestion
± standard deviation	Sodium (Na)	[7440-23-5]	0,031 ± 0,006	%	4-Acid Digestion

± standard deviation	Niobium (Nb)	[7440-03-1]	3,82 ± 0,297	ppm	4-Acid Digestion
± standard deviation	Neodymium (Nd)	[7440-00-8]	13,9 ± 0,59	ppm	4-Acid Digestion
± standard deviation	Nickel (Ni)	[7440-02-0]	31,2 ± 1,91	ppm	4-Acid Digestion
± standard deviation	Phosphorus (P)	[7723-14-0]	0,103 ± 0,005	%	4-Acid Digestion
± standard deviation	Lead (Pb)	[7439-92-1]	12,2 ± 0,75	ppm	4-Acid Digestion
± standard deviation	Praseodymium (Pr)	[7440-10-0]	3,57 ± 0,164	ppm	4-Acid Digestion
± standard deviation	Rubidium (Rb)	[7440-17-7]	59 ± 3,1	ppm	4-Acid Digestion
± standard deviation	Rhenium (Re)	[7440-15-5]	0,007 ± 0,001	ppm	4-Acid Digestion
± standard deviation	Sulfur (S)	[7704-34-9]	0,049 ± 0,007	%	4-Acid Digestion
± standard deviation	Antimony (Sb)	[7440-36-0]	26,7 ± 1,02	ppm	4-Acid Digestion
± standard deviation	Scandium (Sc)	[7440-20-2]	4 ± 0,252	ppm	4-Acid Digestion
± standard deviation	Selenium (Se)	[7782-49-2]	9,97 ± 1,08	ppm	4-Acid Digestion
± standard deviation	Samarium (Sm)	[7440-19-9]	2,65 ± 0,081	ppm	4-Acid Digestion
± standard deviation	Tin (Sn)	[7440-31-5]	0,97 ± 0,086	ppm	4-Acid Digestion
± standard deviation	Strontium (Sr)	[7440-24-6]	321 ± 19	ppm	4-Acid Digestion
± standard deviation	Tantalum (Ta)	[7440-25-7]	0,25 ± 0,03	ppm	4-Acid Digestion
± standard deviation	Terbium (Tb)	[7440-27-9]	0,45 ± 0,033	ppm	4-Acid Digestion
± standard deviation	Tellurium (Te)	[13494-80-9]	0,21 ± 0,03	ppm	4-Acid Digestion
± standard deviation	Thorium (Th)	[7440-29-1]	2,94 ± 0,116	ppm	4-Acid Digestion

± standard deviation	Titanium (Ti)	[7440-32-6]	0,084 ± 0,004	%	4-Acid Digestion
± standard deviation	Thallium (Tl)	[7440-28-0]	9,47 ± 0,363	ppm	4-Acid Digestion
± standard deviation	Thulium (Tm)	[7440-30-4]	0,25 ± 0,01	ppm	4-Acid Digestion
± standard deviation	Uranium (U)	[7440-61-1]	6,22 ± 0,302	ppm	4-Acid Digestion
± standard deviation	Vanadium (V)	[7440-62-2]	111 ± 6	ppm	4-Acid Digestion
± standard deviation	Tungsten (W)	[7440-33-7]	10,5 ± 0,49	ppm	4-Acid Digestion
± standard deviation	Yttrium (Y)	[7440-65-5]	24,9 ± 1,19	ppm	4-Acid Digestion
± standard deviation	Ytterbium (Yb)	[7440-64-4]	1,57 ± 0,086	ppm	4-Acid Digestion
± standard deviation	Zinc (Zn)	[7440-66-6]	46,4 ± 3,62	ppm	4-Acid Digestion
± standard deviation	Zirconium (Zr)	[7440-67-7]	31,5 ± 4,7	ppm	4-Acid Digestion
± standard deviation	Silver (Ag)	[7440-22-4]	0,524 ± 0,043	ppm	Aqua Regia Digestion
± standard deviation	Aluminium (Al)	[7429-90-5]	0,549 ± 0,056	%	Aqua Regia Digestion
± standard deviation	Arsenic (As)	[7440-38-2]	1215 ± 61	ppm	Aqua Regia Digestion
± standard deviation	Barium (Ba)	[7440-39-3]	25,1 ± 2,38	ppm	Aqua Regia Digestion
± standard deviation	Beryllium (Be)	[7440-41-7]	0,4 ± 0,023	ppm	Aqua Regia Digestion
± standard deviation	Bismuth (Bi)	[7440-69-9]	0,61 ± 0,024	ppm	Aqua Regia Digestion
± standard deviation	Calcium (Ca)	[7440-70-2]	18,56 ± 1,328	%	Aqua Regia Digestion
± standard deviation	Cadmium (Cd)	[7440-43-9]	0,42 ± 0,027	ppm	Aqua Regia Digestion
± standard deviation	Cerium (Ce)	[7440-45-1]	16,2 ± 1,15	ppm	Aqua Regia Digestion

± standard deviation	Cobalt (Co)	[7440-48-4]	2,24 ± 0,3	ppm	Aqua Regia Digestion
± standard deviation	Chromium (Cr)	[7440-47-3]	22,1 ± 1,94	ppm	Aqua Regia Digestion
± standard deviation	Caesium (Cs)	[7440-46-2]	1,42 ± 0,2	ppm	Aqua Regia Digestion
± standard deviation	Copper (Cu)	[7440-50-8]	20,5 ± 1,87	ppm	Aqua Regia Digestion
± standard deviation	Dysprosium (Dy)	[7429-91-6]	2,89 ± 0,241	ppm	Aqua Regia Digestion
± standard deviation	Erbium (Er)	[7440-52-0]	1,72 ± 0,117	ppm	Aqua Regia Digestion
± standard deviation	Europium (Eu)	[7440-53-1]	0,55 ± 0,037	ppm	Aqua Regia Digestion
± standard deviation	Iron (Fe)	[7439-89-6]	0,759 ± 0,06	%	Aqua Regia Digestion
± standard deviation	Gallium (Ga)	[7440-55-3]	1,75 ± 0,22	ppm	Aqua Regia Digestion
± standard deviation	Gadolinium (Gd)	[7440-54-2]	2,83 ± 0,206	ppm	Aqua Regia Digestion
± standard deviation	Germanium (Ge)	[7440-56-4]	< 0,10 ± IND	ppm	Aqua Regia Digestion
± standard deviation	Hafnium (Hf)	[7440-58-6]	0,22 ± 0,03	ppm	Aqua Regia Digestion
± standard deviation	Mercury (Hg)	[7439-97-6]	96 ± 4,2	ppm	Aqua Regia Digestion
± standard deviation	Holmium (Ho)	[7440-60-0]	0,6 ± 0,052	ppm	Aqua Regia Digestion
± standard deviation	Indium (In)	[7440-74-6]	0,034 ± 0,004	ppm	Aqua Regia Digestion
± standard deviation	Potassium (K)	[7440-09-7]	0,277 ± 0,023	%	Aqua Regia Digestion
± standard deviation	Lanthanum (La)	[7439-91-0]	12,9 ± 0,74	ppm	Aqua Regia Digestion
± standard deviation	Lithium (Li)	[7439-93-2]	4,37 ± 0,427	ppm	Aqua Regia Digestion
± standard deviation	Lutetium (Lu)	[7439-94-3]	0,19 ± 0,014	ppm	Aqua Regia Digestion

± standard deviation	Magnesium (Mg)	[7439-95-4]	4,87 ± 0,176	%	Aqua Regia Digestion
± standard deviation	Manganese (Mn)	[7439-96-5]	0,041 ± 0,003	%	Aqua Regia Digestion
± standard deviation	Molybdenum (Mo)	[7439-98-7]	7,36 ± 0,617	ppm	Aqua Regia Digestion
± standard deviation	Niobium (Nb)	[7440-03-1]	0,11 ± 0,02	ppm	Aqua Regia Digestion
± standard deviation	Neodymium (Nd)	[7440-00-8]	11,4 ± 0,92	ppm	Aqua Regia Digestion
± standard deviation	Nickel (Ni)	[7440-02-0]	30,4 ± 2,4	ppm	Aqua Regia Digestion
± standard deviation	Phosphorus (P)	[7723-14-0]	0,1 ± 0,011	%	Aqua Regia Digestion
± standard deviation	Lead (Pb)	[7439-92-1]	12,1 ± 1,18	ppm	Aqua Regia Digestion
± standard deviation	Praseodymium (Pr)	[7440-10-0]	2,74 ± 0,229	ppm	Aqua Regia Digestion
± standard deviation	Rubidium (Rb)	[7440-17-7]	20,4 ± 2,1	ppm	Aqua Regia Digestion
± standard deviation	Rhenium (Re)	[7440-15-5]	0,007 ± 0,001	ppm	Aqua Regia Digestion
± standard deviation	Sulfur (S)	[7704-34-9]	0,045 ± 0,009	%	Aqua Regia Digestion
± standard deviation	Antimony (Sb)	[7440-36-0]	19,7 ± 2,2	ppm	Aqua Regia Digestion
± standard deviation	Scandium (Sc)	[7440-20-2]	3,87 ± 0,4	ppm	Aqua Regia Digestion
± standard deviation	Selenium (Se)	[7782-49-2]	8,97 ± 0,747	ppm	Aqua Regia Digestion
± standard deviation	Samarium (Sm)	[7440-19-9]	2,39 ± 0,17	ppm	Aqua Regia Digestion
± standard deviation	Tin (Sn)	[7440-31-5]	0,6 ± 0,08	ppm	Aqua Regia Digestion
± standard deviation	Strontium (Sr)	[7440-24-6]	308 ± 26	ppm	Aqua Regia Digestion
± standard deviation	Tantalum (Ta)	[7440-25-7]	< 0,010 ± IND	ppm	Aqua Regia Digestion

± standard deviation	Terbium (Tb)	[7440-27-9]	0,44 ± 0,033	ppm	Aqua Regia Digestion
± standard deviation	Tellurium (Te)	[13494-80-9]	0,2 ± 0,04	ppm	Aqua Regia Digestion
± standard deviation	Thorium (Th)	[7440-29-1]	2,43 ± 0,128	ppm	Aqua Regia Digestion
± standard deviation	Titanium (Ti)	[7440-32-6]	0,008 ± 0,002	%	Aqua Regia Digestion
± standard deviation	Thallium (Tl)	[7440-28-0]	7,52 ± 0,77	ppm	Aqua Regia Digestion
± standard deviation	Thulium (Tm)	[7440-30-4]	0,23 ± 0,008	ppm	Aqua Regia Digestion
± standard deviation	Uranium (U)	[7440-61-1]	5,07 ± 0,283	ppm	Aqua Regia Digestion
± standard deviation	Vanadium (V)	[7440-62-2]	60 ± 6	ppm	Aqua Regia Digestion
± standard deviation	Tungsten (W)	[7440-33-7]	5,12 ± 0,456	ppm	Aqua Regia Digestion
± standard deviation	Yttrium (Y)	[7440-65-5]	23,2 ± 1,32	ppm	Aqua Regia Digestion
± standard deviation	Ytterbium (Yb)	[7440-64-4]	1,41 ± 0,13	ppm	Aqua Regia Digestion
± standard deviation	Zinc (Zn)	[7440-66-6]	42,9 ± 3,1	ppm	Aqua Regia Digestion
± standard deviation	Zirconium (Zr)	[7440-67-7]	7,93 ± 0,652	ppm	Aqua Regia Digestion