

Attachment to Log No. 235 305

CUSTOMER Manz CIGS Technology GmbH, 74523 Schwäbisch Hall
 SAMPLE TYPE waste water sample
 SAMPLE TAKEN AT process waste water
 SAMPLE TAKEN ON 13th June 2017
 SAMPLE TAKEN BY Mr Glier, Manz CIGS Technology GmbH
 LOG NO. 235 305 SAMPLE RECEIVED ON 16th June 2017

ICP-MS - overview analysis

element	concentration [mg/l]	element	concentration [mg/l]	element	concentration [mg/l]
Lithium Li	< 0,05	Rubidium Rb	< 0,01	Gadolinium Gd	< 0,005
Beryllium Be	< 0,05	Strontium Sr	< 0,01	Terbium Tb	< 0,005
Bor B	0,02	Yttrium Y	< 0,01	Dysprosium Dy	< 0,005
Natrium Na	2,4	Zirkon Zr	< 0,01	Holmium Ho	< 0,005
Magnesium Mg	0,01	Niob Nb	< 0,01	Erbium Er	< 0,005
Aluminium Al	< 0,05	Molybdän Mo	< 0,01	Thulium Tm	< 0,005
Kalium K	3,1	Ruthenium Ru	< 0,01	Ytterbium Yb	< 0,005
Calcium Ca	0,82	Palladium Pd	< 0,01	Lutetium Lu	< 0,005
Scandium Sc	< 0,01	Silber Ag	< 0,01	Hafnium Hf	< 0,005
Titan Ti	0,61	Cadmium Cd	230	Tantal Ta	< 0,005
Vanadium V	< 0,01	Indium In	0,13	Wolfram W	< 0,005
Chrom Cr	< 0,01	Zinn Sn	< 0,005	Rhenium Re	< 0,005
Mangan Mn	< 0,01	Antimon Sb	< 0,005	Osmium Os	< 0,005
Eisen Fe	0,49	Tellur Te	< 0,005	Iridium Ir	< 0,005
Cobalt Co	< 0,01	Cäsium Cs	< 0,005	Platin Pt	< 0,005
Nickel Ni	< 0,01	Barium Ba	< 0,005	Gold Au	0,009
Kupfer Cu	0,11	Lanthan La	< 0,005	Quecksilber Hg	< 0,005
Zink Zn	0,06	Cer Ce	< 0,005	Thallium Tl	< 0,005
Gallium Ga	0,31	Praseodym Pr	< 0,005	Blei Pb	0,005
Germanium Ge	< 0,01	Neodym Nd	< 0,005	Bismut Bi	< 0,005
Arsen As	< 0,01	Samarium Sm	< 0,005	Thorium Th	< 0,005
Selen Se	0,06	Europium Eu	< 0,005	Uran U	< 0,005

Note:

The values were quantitative determined with the ICP-MS Elan DRCe Total Quant according to DIN EN ISO 17294-2. The test results apply exclusively to the tested sample. It is not permitted to copy this report in whole or in part without the test lab's consent in writing.

