Homestake Mining Company - Grants Project

Parameter Codes

Parameter Code	Parameter Name	Parameter Units	Parameter Description
1	Ca	(mg/l)	Calcium, Dissolved
2	Mg	(mg/l)	Magnesium, Dissolved
3	K	(mg/l)	Potassium, Dissolved
4	Na	(mg/l)	Sodium, Dissolved
5	HCO3	(mg/l)	Bicarbonate, Dissolved
6	CO3	(mg/l)	Carbonate, Dissolved
7	Cl	(mg/l)	Chlorine, Dissolved
8	SO4	(mg/l)	Sulfate, Dissolved
9	pH	(std. units)	pH
10	TDS	(mg/l)	Total Dissolved Solids
11	Cond	(micromhos/cm)	Conductivity "Micromohs Meter"
12	Temp	(deg. C)	Temperature Celsius
13	WL	(feet)	Water Level Below Measuring Point
14	CE	(ft-msl)	Casing Elevation (Feet)
15	Unat	(mg/l)	U-Nat, Dissolved
16	KNO3	(mg/l)	Nitrogen Kjedahl, Dissolved
17	BV	(gallons)	Bail Volume
18	TD	(feet)	Total Depth Below Measuring Point
19	DDT PSI	(psi)	Drawdown Tube Pressure
20	Vacuum	(in-Hg)	Well Head Vacuum
21	Pump PSI	(psi)	Pump Pressure
22	Al	(mg/l)	Aluminum, Dissolved
23	As	(mg/l)	Arsenic, Dissolved
24	Ba	(mg/l)	Barium, Dissolved
25	B	(mg/l)	Boron, Dissolved
26	Cd	(mg/l)	Cadmium, Dissolved
27	Cr	(mg/l)	Chromium, Dissolved
28	Co	(mg/l)	Cobalt, Dissolved
29	Cu	(mg/l)	Copper, Dissolved
30	Cn	(mg/l)	Cyanide, Dissolved
31	F	(mg/l)	Flouride, Dissolved
32	Fe	(mg/l)	Iron, Dissolved
33	Pb	(mg/l)	Lead, Dissolved
34	Mn	(mg/l)	Manganese, Dissolved
35	Hg	(mg/l)	Mercury, Dissolved
36	Mo	(mg/l)	Molybdenum, Dissolved
37	Ni	(mg/l)	Nickel, Dissolved
38	NH3	(mg/l)	Ammonia, Dissolved
39	NO3	(mg/l)	Nitrate, Dissolved
40	Se	(mg/l)	Selenium, Dissolved
41	Ag	(mg/l)	Silver, Dissolved
42	V	(mg/l)	Vanadium, Dissolved
43	Zn	(mg/l)	Zinc, Dissolved
44	U3O8	(mg/l)	Uranium Oxide, Dissolved
45	Ra226	(pCi/l)	Radium 226, Dissolved

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Parameter Codes

Parameter Code	Parameter Name	Parameter Units	Parameter Description
46	Ra	(pCi/l)	Total Radium, Dissolved
47	Pb210	(pCi/l)	Lead 210, Dissolved
48	Th230	(pCi/l)	Thorium 230, Dissolved
49	Po210	(pCi/l)	Polonium 210, Dissolved
50	NO2	(mg/l)	Nitrite, Dissolved
51	Cond(calc.)	(micromhos/cm)	Specific Conductivity at 25 degrees C
52	PO4	(mg/l)	Phosphates, Dissolved
53	Hardness	(mg/l)	Hardness, Dissolved
54	Meter	(gallons)	Totalizer Reading
55	COD	(mg/l)	Chemical Oxygen Demand, Dissolved
56	TSS	(mg/l)	Total Suspended Solids
57	Ra228	(pCi/l)	Radium 228, Dissolved
58	Flow	(gpm)	Flow
59	PP	(minutes)	Pumping Period (Minutes)
60	Ion_B	(ratio)	Ion Balance Ratio
61	WL_ELEV	(ft-msl)	Water Level Elevation
62	Be	(mg/l)	Beryllium, Dissolved
63	Zr	(mg/l)	Zirconium, Dissolved
64	Ti	(mg/l)	Titanium, Dissolved
65	Sr	(mg/l)	Strontium, Dissolved
66	Sn	(mg/l)	Tin, Dissolved
67	Si	(mg/l)	Silicon, Dissolved
68	O	(mg/l)	Oxygen, Dissolved
69	P	(mg/l)	Phosphorus, Dissolved
70	Se VI	(mg/l)	Selenium VI, Dissolved
71	Li	(mg/l)	Lithium, Dissolved
72	TOC	(mg/l)	Organic Carbon, Dissolved
73	SO2(d)	(mg/l)	Sulfide, Dissolved
74	OPO4	(mg/l)	Orthophosphate
75	CaCO3	(mg/l)	Alkalinity, Dissolved
76	REDOX	(mv)	Oxidation Reduction
79	DSSUM	(mg/l)	Calc TDS
80	SIO2	(mg/l)	Silica, Dissolved
82	OH	(mg/l)	Hydroxide, Dissolved
83	Sb	(mg/l)	Antimony, Dissolved
86	Turb	(std. units)	Turbidity
87	Acid	(mg/l)	Acidity, Dissolved
89	Tl	(mg/l)	Thallium, Dissolved
90	SAR	(ratio)	Sodium Adsorption Ratio
92	BALNC	(%)	Wyoming DEQ Anion/Cation Balance
94	Anions(t)	(meq/l)	Total Anions
95	Cations(t)	(meq/l)	Total Cations
96	O&G	(mg/l)	Oil & Grease
99	CAR	(ratio)	Anion/Cation Ratio
101	Ca(t)	(mg/l)	Calcium, Total

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Parameter Codes

Parameter Code	Parameter Name	Parameter Units	Parameter Description
102	Mg(t)	(mg/l)	Magnesium, Total
103	K(t)	(mg/l)	Potassium, Total
104	Na(t)	(mg/l)	Sodium, Total
105	HCO3(f)	(mg/l)	Bicarbonate, Field, Dissolved
106	CO3(f)	(mg/l)	Carbonate, Field, Dissolved
107	Cl(f)	(mg/l)	Chloride, Field, Dissolved
108	SO4(t)	(mg/l)	Sulfate, Total
109	pH(f)	(std. units)	pH, Field
110	TDS(f)	(mg/l)	TDS, Field
111	Cond(f)	(micromhos/cm)	Conductivity, Field @ 25C
112	AirTemp	(deg.C)	Air Temperature
113	Unat(dμ)	μCi/mL	U-Nat, Dissolved
114	Unat(dμe)	μCi/mL	U-Nat, Dissolved, (error +/-)
115	UNat(t)	(mg/l)	U-Nat, Total
116	KNO3(t)	(mg/l)	Nitrogen Kjedahl, Total
117	Unat(tμ)	μCi/mL	U-Nat, Total
118	Unat(tμe)	μCi/mL	U-Nat, Total (error +/-)
119	As(tr)	mg/L	Arsenic, Total Recoverable
120	Cr(tr)	mg/L	Chromium, Total Recoverable
121	Fe(tr)	mg/L	Iron, Total Recoverable
122	Al(t)	(mg/l)	Aluminum, Total
123	As(t)	(mg/l)	Arsenic, Total
124	Ba(t)	(mg/l)	Barium, Total
125	B(t)	(mg/l)	Boron, Total
126	Cd(t)	(mg/l)	Cadmium, Total
127	Cr(t)	(mg/l)	Chromium, Total
128	Co(t)	(mg/l)	Cobalt, Total
129	Cu(t)	(mg/l)	Copper, Total
130	Cn(t)	(mg/l)	Cyanide, Total
131	F(t)	(mg/l)	Flouride, Total
132	Fe(t)	(mg/l)	Iron, Total
133	Pb(t)	(mg/l)	Lead, Total
134	Mn(t)	(mg/l)	Manganese, Total
135	Hg(t)	(mg/l)	Mercury, Total
136	Mo(t)	(mg/l)	Molybdenum, Total
137	Ni(t)	(mg/l)	Nickel, Total
138	NH3(t)	(mg/l)	Ammonia, Total
139	NO3(t)	(mg/l)	Nitrate, Total
140	Se(t)	(mg/l)	Selenium, Total
141	Ag(t)	(mg/l)	Silver, Total
142	V(t)	(mg/l)	Vanadium, Total
143	Zn(t)	(mg/l)	Zinc, Total
144	U3O8(t)	(mg/l)	Uranium Oxide, Total
145	Ra226(t)	(pCi/l)	Radium 226, Total
146	P(t)	(mg/l)	Phosphorus, Total

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Parameter Codes

Parameter Code	Parameter Name	Parameter Units	Parameter Description
147	Pb210(t)	(pCi/l)	Lead 210, Total
148	Th230(t)	(pCi/l)	Thorium 230, Total
149	Po210(t)	(pCi/l)	Polonium 210, Total
150	NO2(t)	(mg/l)	Nitrite, Total
152	PO4(t)	(mg/l)	Phosphates, Total
153	Hardness(t)	(mg/l)	Hardness, Total
155	COD(t)	(mg/l)	Chemical Oxygen Demand, Total
157	Ra228(t)	(pCi/l)	Radium 228, Total
162	Alk(f)	(mg/l)	Alkalinity, Field, Dissolved
163	Zr(t)	(mg/l)	Zirconium, Total
164	Ti(t)	(mg/l)	Titanium, Total
165	Sr(t)	(mg/l)	Strontium, Total
166	Sn(t)	(mg/l)	Tin, Total
167	Si(t)	(mg/l)	Silicon, Total
170	Se VI(t)	(mg/l)	Selenium VI, Total
171	Li(t)	(mg/l)	Lithium, Total
172	TOC(t)	(mg/l)	Organic Carbon, Total
175	Alk(t)	(mg/l)	Alkalinity, Total
179	DSSUM	(mg/l)	Calc. DSSUM, Total
180	SIO2(t)	(mg/l)	Silica, Total
182	OH(t)	(mg/l)	Hydroxide, Total
183	Sb(t)	(mg/l)	Antimony, Total
184	Tl(t)	(mg/l)	Thallium, Total
186	Be(t)	(mg/l)	Beryllium, Total
187	Acid(t)	(mg/l)	Acidity, Total
190	SAR(c)	(ratio)	Calc. Sodium Adsorption Ratio
192	BALNC©	(%)	Anion/Cation Balance
194	Anions(c)	(meq/l)	Calc. Anions
195	Cations(c)	(meq/l)	Calc.Cations
196	Cat/An Diff	(meq/l)	Cations - Anions
197	CatAnion	(meq/l)	Cat Anion
199	CAR(c)	(ratio)	Calc Anion/Cation Ratio
201	Br	(mg/l)	Bromide, Dissolved
202	DD_Tube	(feet)	Drawdown Tube Length
203	Mpt	(feet)	Measuring Point Elevation
204	Stickup	(feet)	Measuring Point above Ground Level
205	Br(t)	(mg/l)	Bromide, Total
206	CO3(t)	(mg/l)	Carbonate, Total
207	Cl(t)	(mg/l)	Chlorine, Total
210	NO3+NO2	(mg/l)	Nitrate + Nitrite, Dissolved
214	S	(mg/l)	Sulphur, Dissolved
218	Ce	(mg/l)	Cerium, dissolved
220	Alpha	(pCi/l)	Gross Alpha, Dissolved
221	Alpha(e)	(pCi/l)	Gross Alpha, Dissolved (error +/-)
222	Ga	(mg/l)	Gallium, Dissolved

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Parameter Codes

Parameter Code	Parameter Name	Parameter Units	Parameter Description
224	Au	(mg/l)	Gold, Dissolved
225	Beta	(pCi/l)	Gross Beta, Dissolved
230	Cn(f)	(mg/l)	Cyanide, Free
239	Pd	(mg/l)	Palladium, Dissolved
240	Pt	(mg/l)	Platinum, Dissolved
243	Zn(pd)	(mg/l)	Zinc Potentially Dissolved
244	Unat(e)	mg/L	U-Nat, Dissolved (error +/-)
245	Ra226(e)	(pCi/l)	Radium 226, Dissolved (error +/-)
246	Sc	(mg/l)	Scandium, Dissolved
247	Pb210(e)	(pCi/l)	Lead 210, Dissolved (error +/-)
248	Th230(e)	(pCi/l)	Th230, Dissolved (error +/-)
249	Te	(mg/l)	Tellurium, Dissolved
255	W	(mg/l)	Tungsten, Dissolved
256	Ra226(dμ)	μCi/mL	Radium 226, Dissolved
257	Ra228(e)	(pCi/l)	Radium 228, Dissolved (error +/-)
258	Ra226(dμe)	μCi/mL	Radium 226, Dissolved (error +/-)
261	Bi	(mg/l)	Bismuth, Dissolved
262	Alk(ft)	(mg/l)	Alkalinity, Field, Total
272	Ra226+Ra228	(pCi/l)	Ra226+Ra228, Dissolved
275	SEDSOL	(ml/l/hr)	Sedsol
300	Flow Min	(gpm)	Minimum Flow
305	Flow Max	(gpm)	Maximum Flow
306	CO3(ft)	(mg/l)	Carbonate, Field, Total
307	Cl(ft)	(mg/l)	Chloride, Field, Total
310	NO3+NO2(t)	(mg/l)	Nitrate + Nitrite, Total
314	S(t)	(mg/l)	Sulphur, Total
318	Ce(t)	(mg/l)	Cerium, Total
321	Alpha(t)	(pCi/l)	Gross Alpha, Total
322	Ga(t)	(mg/l)	Gallium, Total
323	As III	(mg/l)	Arsenic III, Dissolved
324	Au(t)	(mg/l)	Gold, Total
325	Beta(e)	(pCi/l)	Gross Beta, dissolved (error +/-)
339	Pd(t)	(mg/l)	Palladium, Total
340	Se IV	(mg/l)	Selenium IV, Dissolved
341	226Ra(tμ)	μCi/mL	Radium 226, Total
342	226Ra(tμe)	mg/L	Radium 226, Total (error +/-)
344	Unat(te)	mg/L	U-Nat, Total (error +/-)
345	Ra226(te)	(pCi/l)	Radium 226, Total (error +/-)
346	Sc(t)	(mg/l)	Scandium, Total
347	Pb210(te)	(pCi/l)	Lead 210, Total (error +/-)
348	Th230(te)	(pCi/l)	Th230, Total (error +/-)
349	Te(t)	(mg/l)	Tellurium, Total
355	W(t)	(mg/l)	Tungsten, Total
356	228Ra(tμ)	μCi/mL	Radium 228, Total
357	Ra228(te)	(pCi/l)	Radium 228, Total (error +/-)

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Parameter Codes

Parameter Code	Parameter Name	Parameter Units	Parameter Description
358	228Ra(tμe)	μCi/mL	Radium 228, Total (error +/-)
359	Ra228(dμ)	μCi/mL	Radium 228, Dissolved
360	Ra228(dμe)	μCi/mL	Radium 228, Dissolved (error +/-)
361	Bi(t)	(mg/l)	Bismuth, Total
362	Th230(dμ)	μCi/mL	Thorium 230, Dissolved
363	Th230(dμe)	μCi/mL	Thorium 230, Dissolved (error +/-)
372	Ra226+Ra228(t)	(pCi/l)	Ra226+Ra228, Total
400	Cn(WAD)	(mg/l)	Cyanide, WAD
405	HCO3(ft)	(mg/l)	Bicarbonate, Field, Total
421	Alpha(te)	(pCi/l)	Gross Alpha, Total (error +/-)
423	As III(t)	(mg/l)	Arsenic III, Total
425	Beta(t)	(pCi/l)	Gross Beta, Total
440	Se IV(t)	(mg/l)	Selenium IV, Total
446	Ra(t)	(pCi/l)	Total Radium, Total
500	Spring	Status	Spring Status
505	HCO3(t)	(mg/l)	Bicarbonate, Total
525	Beta(te)	(pCi/l)	Gross Beta, Total (error +/-)
540	Pt(t)	(mg/l)	Platinum, Total
701	SGR	(feet)	Staff Gauge Reading
702	PTR	(feet)	Pressure Transducer Reading
703	WPTR	(feet)	Weir Pressure Transducer Reading

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Remark Codes

Remark Code	Remark
A	Value Average of Two Readings
B	Value Average of Three Readings
C	Value Calculated From Other Parameter
E	Value Estimated
F	Indicates Field Measurement
G	Greater than Value Given
H	Final Reading For This Meter
I	Beginning Reading For This Meter
J	Weekly Composite
K	Continuously Pumping
M	Spiked Sample
N	None
Q	Quality Control Sample
S	System Change
T	Total Depth Piezometers Only
U	U-NAT
X	Duplicate Sample
Y	Damp
Z	Dry