

Appendix; Indicator mineral counts; data listing

OVERBURDEN DRILLING MANAGEMENT LIMITED
GOLD GRAIN SUMMARY SHEET

Sample Number		Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
		Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
A02	168	0	0	0	0	20.5	0	0	0	0
A03	68	0	0	0	0	25.7	0	0	0	0
A04	35	0	0	0	0	17.6	0	0	0	0
A05	38	0	0	0	0	24.9	0	0	0	0
A06	209	2	1	0	1	26.1	96	81	0	14
A07	255	0	0	0	0	32.9	0	0	0	0
A08	119	3	3	0	0	25.6	85	85	0	0
A09	241	1	1	0	0	34.4	6	6	0	0
A10	133	4	4	0	0	34.8	19	19	0	0
A11	5	4	4	0	0	40.9	17	17	0	0
A12	126	1	1	0	0	35.5	5	5	0	0
A13	137	0	0	0	0	5.5	0	0	0	0
B02	118	1	1	0	0	18.2	4	4	0	0
B03	82	4	4	0	0	27.6	58	58	0	0
B04	91	1	1	0	0	26.8	14	14	0	0
B05	240	1	1	0	0	40.4	16	16	0	0
B06	153	1	0	1	0	21.2	1	0	1	0
B07	233	0	0	0	0	8.6	0	0	0	0
B08	245	5	4	1	0	33.5	29	28	1	0
B09	98	2	2	0	0	18.1	650	650	0	0
B10	11	4	4	0	0	29.9	16	16	0	0
B11	56	1	1	0	0	37.5	27	27	0	0
B12	173	1	1	0	0	15.5	<1	<1	0	0
C02	189	1	0	0	1	29.8	6	0	0	6
C03	51	0	0	0	0	13.3	0	0	0	0
C04	6	2	1	1	0	31.4	12	<1	12	0
C05a	93	0	0	0	0	26.9	0	0	0	0
C05b	46	0	0	0	0	35.0	0	0	0	0
C06	237	0	0	0	0	30.4	0	0	0	0
C07	145	4	4	0	0	30.4	17	17	0	0
C08	136	4	4	0	0	18.0	161	161	0	0
C09	131	1	1	0	0	34.2	11	11	0	0
C10	210	1	0	1	0	52.9	<1	0	<1	0
C11	169	6	5	0	1	19.8	93	91	0	3
C12	166	7	4	3	0	21.9	155	151	4	0
D02	143	2	2	0	0	17.9	67	67	0	0
D03	149	5	5	0	0	16.6	21	21	0	0
D04	9	2	2	0	0	28.4	6	6	0	0
D05	106	0	0	0	0	37.9	0	0	0	0
D06	3	4	4	0	0	46.8	58	58	0	0
D07	14	8	7	1	0	21.4	151	150	1	0
D08	230	1	1	0	0	48.5	8	8	0	0

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Sample Number		Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
		Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
D09	139	2	2	0	0	20.4	28	28	0	0
D10	127	0	0	0	0	45.4	0	0	0	0
D11	39	2	2	0	0	33.8	107	107	0	0
D12	225	1	1	0	0	35.7	2	2	0	0
E02	92	1	1	0	0	18.8	1	1	0	0
E03	190	0	0	0	0	18.3	0	0	0	0
E04	186	1	1	0	0	32.9	1	1	0	0
E05	61	1	1	0	0	37.9	130	130	0	0
E06	12	2	1	1	0	17.5	9	5	5	0
E07	195	2	2	0	0	39.2	33	33	0	0
E08	113	3	3	0	0	22.9	83	83	0	0
E09	181	4	4	0	0	64.1	10	10	0	0
E10	101	4	3	1	0	58.7	25	19	6	0
E11	167	3	1	2	0	47.0	6	4	2	0
F02	185	2	2	0	0	21.8	18	18	0	0
F03	198	1	1	0	0	19.7	4	4	0	0
F04	211	2	2	0	0	47.4	3	3	0	0
F05	142	2	2	0	0	17.3	33	33	0	0
F06	57	0	0	0	0	41.6	0	0	0	0
F07	64	0	0	0	0	28.3	0	0	0	0
F08A	269	1	1	0	0	41.0	16	16	0	0
F08B	264	2	2	0	0	69.8	7	7	0	0
F09	229	0	0	0	0	42.8	0	0	0	0
F10	158	1	1	0	0	30.9	3	3	0	0
G02	125	0	0	0	0	30.5	0	0	0	0
G03	94	2	2	0	0	23.8	43	43	0	0
G04	163	3	2	1	0	23.6	14	12	2	0
G05	236	1	1	0	0	14.1	26	26	0	0
G06	90	3	3	0	0	19.8	7	7	0	0
G07	174	2	2	0	0	27.6	60	60	0	0
G08	193	0	0	0	0	26.7	0	0	0	0
G09	232	4	4	0	0	103.1	9	9	0	0
G10	22	1	1	0	0	164.8	1	1	0	0
H02	222	0	0	0	0	24.8	0	0	0	0
H03	179	0	0	0	0	10.6	0	0	0	0
H04	105	1	1	0	0	15.4	138	138	0	0
H05	124	2	2	0	0	27.1	10	10	0	0
H06	77	1	1	0	0	44.0	15	15	0	0
H07	170	5	5	0	0	36.1	49	49	0	0
H08	132	1	1	0	0	32.3	3	3	0	0
H09	271	0	0	0	0	264.3	0	0	0	0
H10	7	2	2	0	0	194.3	5	5	0	0
I02	34	1	1	0	0	19.3	10	10	0	0

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GOLD GRAIN SUMMARY SHEET

Sample Number		Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
		Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
I03	87	3	3	0	0	34.5	35	35	0	0
I04	165	2	2	0	0	27.7	46	46	0	0
I05	217	1	1	0	0	65.9	32	32	0	0
I06	13	4	4	0	0	50.3	13	13	0	0
I07	86	0	0	0	0	32.1	0	0	0	0
I08	73	3	3	0	0	76.0	7	7	0	0
I09	60	4	2	2	0	79.5	122	119	3	0
I10	155	3	3	0	0	48.5	4	4	0	0
J02	66	0	0	0	0	31.8	0	0	0	0
J03	47	2	2	0	0	13.5	3	3	0	0
J04	103	3	3	0	0	22.5	120	120	0	0
J05	226	3	3	0	0	46.2	49	49	0	0
J06	183	6	5	0	1	40.9	37	35	0	2
J07	204	40	39	1	0	160.8	67	67	<1	0
J08	107	3	3	0	0	73.7	10	10	0	0
J09	130	4	4	0	0	55.2	73	73	0	0
J10	20	2	1	0	1	53.4	4	4	0	<1
K02	273	3	2	1	0	38.1	41	15	27	0
K03	41	0	0	0	0	16.6	0	0	0	0
K04	250	0	0	0	0	13.7	0	0	0	0
K05	21	1	0	1	0	37.7	1	0	1	0
K06	261	1	1	0	0	169.9	4	4	0	0
K07	148	3	2	1	0	195.0	17	15	2	0
K08	121	7	7	0	0	317.5	4	4	0	0
K09	111	0	0	0	0	208.1	0	0	0	0
K10	228	0	0	0	0	63.2	0	0	0	0
L02	18	2	1	1	0	27.4	24	23	1	0
L03	251	4	4	0	0	34.7	35	35	0	0
L04	220	1	1	0	0	37.8	5	5	0	0
L05E	23	4	4	0	0	54.7	15	15	0	0
L05W	4	0	0	0	0	2.1	0	0	0	0
L06E	40	13	13	0	0	339.3	14	14	0	0
L06WA	218	2	2	0	0	47.4	82	82	0	0
L06WB	184	0	0	0	0	38.5	0	0	0	0
L07	44	9	7	2	0	126.4	18	16	2	0
L08	267	2	2	0	0	134.0	2	2	0	0
L09	19	3	1	2	0	237.0	1	1	<1	0
L10	99	0	0	0	0	275.5	0	0	0	0
L11	150	0	0	0	0	197.5	0	0	0	0
M02	78	0	0	0	0	15.5	0	0	0	0
M03	152	1	1	0	0	17.9	36	36	0	0
M04	248	0	0	0	0	18.6	0	0	0	0
M05	29	3	3	0	0	79.3	10	10	0	0

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Sample Number		Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
		Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
M06	49	3	3	0	0	94.6	6	6	0	0
M07	172	2	2	0	0	123.5	1	1	0	0
M08	128	2	2	0	0	66.0	6	6	0	0
M09	180	0	0	0	0	172.5	0	0	0	0
M10	188	0	0	0	0	156.7	0	0	0	0
M11	120	0	0	0	0	168.3	0	0	0	0
N03	215	0	0	0	0	17.2	0	0	0	0
N04	147	0	0	0	0	8.7	0	0	0	0
N05	138	2	2	0	0	60.7	92	92	0	0
N06	202	4	4	0	0	102.3	12	12	0	0
N07	16	8	8	0	0	188.4	27	27	0	0
N08	259	4	3	1	0	93.7	6	5	1	0
N09	32	4	4	0	0	59.1	96	96	0	0
N10	242	4	4	0	0	289.9	6	6	0	0
N11	266	0	0	0	0	81.3	0	0	0	0
N12	270	0	0	0	0	32.2	0	0	0	0
O03	177	1	0	1	0	34.6	11	0	11	0
O04	8	0	0	0	0	8.7	0	0	0	0
O05	272	7	6	1	0	102.0	30	20	10	0
O06	207	6	6	0	0	121.9	2	2	0	0
O07	182	11	11	0	0	262.8	108	108	0	0
O08	212	8	7	1	0	132.9	9	9	<1	0
O09	246	3	3	0	0	78.8	8	8	0	0
O10	162	3	3	0	0	95.8	11	11	0	0
O11	221	0	0	0	0	237.6	0	0	0	0
O12	65	0	0	0	0	59.3	0	0	0	0
P03	37	8	8	0	0	46.4	17	17	0	0
P04	28	4	4	0	0	11.7	193	193	0	0
P05	206	9	9	0	0	170.6	15	15	0	0
P06	268	16	15	1	0	106.4	22	22	<1	0
P07	48	12	7	3	2	83.8	50	44	6	1
P08	247	1	1	0	0	20.8	4	4	0	0
P09	154	4	4	0	0	139.7	25	25	0	0
P10	157	3	3	0	0	60.6	34	34	0	0
P11	123	1	1	0	0	392.8	5	5	0	0
P12	62	1	0	1	0	54.6	<1	0	<1	0
P13	10	0	0	0	0	275.1	0	0	0	0
Q02	72	0	0	0	0	5.6	0	0	0	0
Q03	200	2	2	0	0	35.1	21	21	0	0
Q03A	129	8	8	0	0	44.0	36	36	0	0
Q04	257	1	1	0	0	25.6	3	3	0	0
Q05	203	7	6	1	0	148.1	37	36	1	0
Q06	108	6	6	0	0	96.3	23	23	0	0

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Sample Number		Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
		Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
Q07	17	1	1	0	0	40.4	53	53	0	0
Q08	156	3	3	0	0	35.2	4	4	0	0
Q09	96	4	4	0	0	76.2	20	20	0	0
Q10	275	5	5	0	0	39.1	29	29	0	0
Q11	58	0	0	0	0	73.7	0	0	0	0
Q12	97	1	1	0	0	435.4	5	5	0	0
Q13	263	0	0	0	0	70.7	0	0	0	0
R02	253	0	0	0	0	2.4	0	0	0	0
R03	15	3	3	0	0	37.6	5	5	0	0
R04	199	7	7	0	0	46.5	40	40	0	0
R05	219	3	3	0	0	30.9	47	47	0	0
R06	164	2	2	0	0	21.9	10	10	0	0
R07	134	5	4	0	1	84.4	22	21	0	1
R08	24	0	0	0	0	12.6	0	0	0	0
R09	201	5	5	0	0	65.8	18	18	0	0
R10	151	3	3	0	0	20.4	32	32	0	0
R11	213	0	0	0	0	17.6	0	0	0	0
R12	194	1	1	0	0	595.5	<1	<1	0	0
R13	192	0	0	0	0	425.9	0	0	0	0
R14	171	1	1	0	0	705.2	<1	<1	0	0
R15	74	1	1	0	0	77.2	2	2	0	0
S01	75	0	0	0	0	38.4	0	0	0	0
S02	45	3	3	0	0	7.2	41	41	0	0
S03	112	3	2	1	0	58.4	5	2	3	0
S04	79	6	5	0	1	73.4	92	7	0	85
S05	89	2	2	0	0	34.5	8	8	0	0
S06	53	1	1	0	0	34.6	19	19	0	0
S07	224	2	2	0	0	23.1	5	5	0	0
S08	81	1	0	1	0	10.2	2	0	2	0
S09	249	1	1	0	0	8.5	10	10	0	0
S10	55	0	0	0	0	47.4	0	0	0	0
S11	84	5	3	2	0	6.1	4699	4684	15	0
S12	116	10	8	0	2	185.0	10	10	0	<1
S13	146	1	1	0	0	494.1	<1	<1	0	0
S14	80	1	1	0	0	165.9	30	30	0	0
S15	187	3	1	0	2	151.3	2	1	0	1
S16	256	0	0	0	0	32.8	0	0	0	0
T01	71	1	1	0	0	32.8	6	6	0	0
T02	144	3	3	0	0	25.3	19	19	0	0
T03	254	1	1	0	0	38.4	1	1	0	0
T04	265	4	4	0	0	51.9	10	10	0	0
T05	88	0	0	0	0	49.6	0	0	0	0
T06	140	7	6	0	1	81.1	84	84	0	<1

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Sample Number		Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
		Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
T07	117	2	2	0	0	32.9	12	12	0	0
T08	85	2	2	0	0	22.5	7	7	0	0
T09	67	0	0	0	0	13.3	0	0	0	0
T10	27	0	0	0	0	181.4	0	0	0	0
T11	33	6	6	0	0	21.6	81	81	0	0
T11-2	260	3	2	1	0	50.9	88	81	7	0
T12	216	4	4	0	0	86.2	22	22	0	0
T14	208	6	6	0	0	307.5	3	3	0	0
T15	59	1	1	0	0	403.7	1	1	0	0
T16	25	0	0	0	0	9.4	0	0	0	0
U02	235	4	4	0	0	55.9	7	7	0	0
U03	191	3	3	0	0	26.3	27	27	0	0
U04	83	1	1	0	0	53.8	4	4	0	0
U05	54	1	1	0	0	79.0	5	5	0	0
U08	234	0	0	0	0	16.0	0	0	0	0
U09	31	6	5	1	0	7.9	654	651	3	0
U10	135	5	3	2	0	36.1	11	5	6	0
U11	205	3	1	1	1	31.5	8445	6	2	8438
V02	70	1	1	0	0	40.5	5	5	0	0
V03	231	1	1	0	0	59.8	3	3	0	0
V04	50	0	0	0	0	55.6	0	0	0	0
V06	227	0	0	0	0	35.0	0	0	0	0
V07	36	3	3	0	0	22.8	45	45	0	0
V08	238	1	1	0	0	17.3	11	11	0	0
V09	178	12	5	3	4	101.9	33	8	22	2
W02	104	2	2	0	0	16.5	12	12	0	0
W03	102	0	0	0	0	24.0	0	0	0	0
W04	175	4	4	0	0	38.2	19	19	0	0
W05	100	4	4	0	0	67.4	40	40	0	0
W06	196	3	3	0	0	49.3	6	6	0	0
X01	43	2	2	0	0	28.7	10	10	0	0
X02	243	3	3	0	0	32.6	9	9	0	0
X03	274	2	2	0	0	26.4	41	41	0	0
X04	110	4	4	0	0	43.5	6	6	0	0
X05	244	0	0	0	0	18.9	0	0	0	0
Y05	42	7	7	0	0	77.6	16	16	0	0
Z01	109	0	0	0	0	29.9	0	0	0	0
Z02	160	0	0	0	0	45.5	0	0	0	0
Z03	223	1	1	0	0	30.9	33	33	0	0
Z04	141	1	1	0	0	68.1	9	9	0	0
Z05	161	0	0	0	0	113.4	0	0	0	0
Z06	176	1	1	0	0	3.2	663	663	0	0
Z07	63	1	1	0	0	73.6	9	9	0	0

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GOLD GRAIN SUMMARY SHEET

Sample Number		Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
		Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
Z08	258	2	2	0	0	749.8	1	1	0	0
Z09	239	2	2	0	0	267.8	8	8	0	0
Z10	26	2	2	0	0	68.8	2	2	0	0
Z11	262	1	1	0	0	168.9	2	2	0	0
Z12	76	4	4	0	0	115.4	11	11	0	0
Z13	159	8	7	1	0	199.1	28	27	1	0
Z14	52	17	13	4	0	179.8	23	21	2	0
Z15	30	6	6	0	0	156.8	3	3	0	0
Z16	214	0	0	0	0	26.9	0	0	0	0
Z17	252	3	2	1	0	71.5	13	8	5	0
Z18	69	0	0	0	0	366.6	0	0	0	0
Z19	122	0	0	0	0	1,636.5	0	0	0	0
Z20	115	1	1	0	0	354.0	<1	<1	0	0
96TCA18	114	15	11	0	4	84.6	12	11	0	1
96TCA19	197	20	15	0	5	67.9	72	67	0	5
96TCA23	95	6	5	0	1	87.2	22	22	0	<1

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks	
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total				
NA-01-3	Yes	5 C	25	25	1			1	4	46.8	58	~1000 grains marcasite 25µ. No PGMs.
		10 C	25	75	1			1				
		13 C	25	100	1			1				
		22 C	75	150	1			1				
NA-01-4	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.	
NA-01-5	Yes	3 C	15	15	2			2	4	40.9	17	No sulphides. No PGMs.
		5 C	25	25	1			1				
		15 C	50	100	1			1				
NA-01-6	Yes	3 C	15	15	1			1	2	31.4	12	No sulphides. No PGMs.
		13 C	25	100		1		1				
NA-01-7	Yes	13 C	50	75	1			1	2	194.3	5	No sulphides. No PGMs.
		15 C	50	100	1			1				
NA-01-8	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.	
NA-01-9	Yes	8 C	25	50	2			2	2	28.4	6	No sulphides. No PGMs.
NA-01-10	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.	
NA-01-11	Yes	3 C	15	15	1			1	4	29.9	16	No sulphides. No PGMs.
		8 C	25	50	1			1				
		10 C	25	75	1			1				
		10 C	50	50	1			1				
NA-01-12	Yes	8 C	25	50	1	1	2	2	17.5	9	No sulphides. No PGMs.	
NA-01-13	Yes	5 C	25	25	1			1	4	50.3	13	No sulphides. No PGMs.
		8 C	25	50	1			1				
		10 C	25	75	1			1				
		13 C	50	75	1			1				
NA-01-14	Yes	5 C	25	25	2	1	3	8	21.4	151	No sulphides. No PGMs.	
		8 C	25	50	1							1
		10 C	25	75	1							1
		13 C	50	75	1							1
		18 C	75	100	1							1
		20 C	75	125	1							1
NA-01-15	Yes	4 C	15	25	1		1	3	37.6	5	No sulphides. No PGMs.	
		8 C	25	50	2							2
NA-01-16	Yes	8 C	25	50	1		1	8	188.4	27	No sulphides. No PGMs.	
		10 C	50	50	1							1
		13 C	50	75	3							3
		15 C	75	75	1							1
		18 C	75	100	1							1
		22 C	75	150	1							1
NA-01-17	Yes	22 C	100	125	1		1	1	40.4	53	No sulphides. No PGMs.	
NA-01-18	Yes	5 C	25	25		1	1	2	27.4	24	No sulphides. No PGMs.	
		15 C	75	75	1							1

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-19	Yes	3 C	15	15			1	1	237.0	1	No sulphides. No PGMs.
		5 C	25	25			1	1			
		10 C	50	50	1			1			
								3			
NA-01-20	Yes	3 C	15	15				1	53.4	4	~200 grains marcasite 50µ. No PGMs.
		10 C	50	50	1			1			
NA-01-21	Yes	5 C	25	25			1	1	37.7	1	No sulphides. No PGMs.
NA-01-22	Yes	10 C	50	50	1			1	164.8	1	No sulphides. No PGMs.
NA-01-23	Yes	8 C	25	50	1			1	54.7	15	No sulphides. No PGMs.
		10 C	50	50	2			2			
		13 C	50	75	1			1			
								4			
NA-01-24	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-25	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-26	Yes	5 C	25	25	1			1	68.8	2	No sulphides. No PGMs.
		8 C	25	50	1			1			
NA-01-27	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-28	Yes	5 C	25	25	2			2	11.7	193	No sulphides. No PGMs.
		8 C	25	50	1			1			
		22 C	100	125	1			1			
								4			
NA-01-29	Yes	8 C	25	50	1			1	79.3	10	No sulphides. No PGMs.
		13 C	50	75	2			2			
NA-01-30	Yes	3 C	15	15	1			1	156.8	3	No sulphides. No PGMs.
		7 C	15	50	2			2			
		5 C	25	25	1			1			
		8 C	25	50	1			1			
		10 C	50	50	1			1			
								6			
NA-01-31	Yes	5 C	25	25	2	1		3	7.9	654	No sulphides. No PGMs.
		8 C	25	50	1			1			
		22 C	100	125	1			1			
		25 C	125	125	1			1			
								6			
NA-01-32	Yes	10 C	25	75	1			1	59.1	96	No sulphides. No PGMs.
		13 C	50	75	2			2			
		50 M	100	125	1			1			
								4			
NA-01-33	Yes	8 C	25	50	2			2	21.6	81	No sulphides. No PGMs.
		10 C	50	50	1			1			
		13 C	50	75	2			2			
		15 C	50	100	1			1			
								6			
NA-01-34	Yes	10 C	50	50	1			1	19.3	10	No sulphides. No PGMs.
								1			
NA-01-36	Yes	10 C	25	75	2			2	22.8	45	No sulphides. No PGMs.
		15 C	75	75	1			1			
								3			

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-37	Yes	7 C	15	50	2			2			No sulphides. No PGMs.
		5 C	25	25	2			2			
		8 C	25	50	3			3			
		13 C	50	75	1			1			
								8	46.4	17	
NA-01-42	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
		10 C	25	75	2			2			
		10 C	50	50	4			4			
								7	77.6	16	
NA-01-43	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
		10 C	50	50	1			1			
								2	28.7	10	
NA-01-45	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		8 C	25	50	1			1			
		10 C	50	50	1			1			
								3	7.2	41	
NA-01-48	Yes	3 C	15	15			1	1			No sulphides. No PGMs.
		4 C	15	25		1		1			
		5 C	25	25	2			2			
		8 C	25	50	1	1	1	3			
		10 C	50	50	2			2			
		13 C	50	75		1		1			
		18 C	75	100	1			1			
		22 C	75	150	1			1			
								12	83.8	50	
NA-01-50	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-53	Yes	15 C	50	100	1			1			No sulphides. No PGMs.
								1	34.6	19	
NA-01-54	Yes	13 C	50	75	1			1			No sulphides. No PGMs.
								1	79.0	5	
NA-01-55	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-58	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-59	Yes	13 C	50	75	1			1			No sulphides. No PGMs.
								1	403.7	1	
NA-01-62	Yes	4 C	15	25		1		1			~50 grains pyrite 50µ. No PGMs.
								1	54.6	<1	
NA-01-67	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-70	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
								1	40.5	5	
NA-01-71	Yes	10 C	25	75	1			1			No sulphides. No PGMs.
								1	32.8	6	
NA-01-72	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-74	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
								1	77.2	2	
NA-01-75	Yes	NO VISIBLE GOLD									~1000 grains marcasite 50µ. No PGMs.
NA-01-79	Yes	5 C	25	25	2			2			No sulphides. No PGMs.
		8 C	25	50	1			1			
		10 C	50	50	2			2			
		31 C	100	225			1	1			
								6	73.4	92	

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-80	Yes	29 C	100	200	1			1			No sulphides. No PGMs.
								1	165.9	30	
NA-01-81	Yes	5 C	25	25			1	1			No sulphides. No PGMs.
								1	10.2	2	
NA-01-83	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
								1	53.8	4	
NA-01-84	Yes	4 C	15	25			1	1			No sulphides. No PGMs.
		5 C	25	25	1			1			
		8 C	25	50	1	1		2			
		50 C	250	300	1			1			
								5	6.1	4699	
NA-01-85	Yes	8 C	25	50			2	2			No sulphides. No PGMs.
								2	22.5	7	
NA-01-88	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-89	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
		10 C	50	50	1			1			
								2	34.5	8	
NA-01-95	Yes	3 C	15	15	1			1			No sulphides. No PGMs.
		5 C	25	25			1	1			
		8 C	25	50	1			1			
		10 C	50	50	1			1			
		15 C	50	100	1			1			
		18 C	50	125	1			1			
								6	87.2	22	
NA-01-96	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		10 C	25	75	1			1			
		15 C	50	100	1			1			
		15 C	75	75	1			1			
								4	76.2	20	
NA-01-97	Yes	22 C	75	150	1			1			No sulphides. No PGMs.
								1	435.4	5	
NA-01-100	Yes	10 C	25	75	1			1			No sulphides. No PGMs.
		13 C	50	75	1			1			
		15 C	75	75	1			1			
		20 C	100	100	1			1			
								4	67.4	40	
NA-01-102	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-104	Yes	4 C	15	25	1			1			No sulphides. No PGMs.
		10 C	50	50	1			1			
								2	16.5	12	
NA-01-108	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		8 C	25	50	2			2			
		13 C	50	75	1			1			
		15 C	50	100	1			1			
		18 C	75	100	1			1			
								6	96.3	23	
NA-01-110	Yes	5 C	25	25	3			3			No sulphides. No PGMs.
		10 C	50	50	1			1			
								4	43.5	6	
NA-01-112	Yes	4 C	15	25	1			1			-100 grains pyrite 50µ.
		8 C	25	50	1			1			No PGMs.
		10 C	25	75		1		1			
								3	58.4	5	

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-116	Yes	3 C	15	15	1			1	2	No sulphides. No PGMs.	
		4 C	15	25	3			3			
		5 C	25	25	1			1	2		
		13 C	50	75	2			2			
		18 C	50	125	1			1			
							10	185.0	10		
NA-01-117	No	5 C	25	25	1			1		No sulphides. No PGMs.	
		13 C	50	75	1			1			
							2	32.9	12		
NA-01-123	Yes	22 C	100	125	1			1		No sulphides. No PGMs.	
							1	392.8	5		
NA-01-129	Yes	4 C	15	25	1			1		No sulphides. No PGMs.	
		5 C	25	25	1			1			
		8 C	25	50	2			2			
		10 C	25	75	2			2			
		13 C	50	75	1			1			
		15 C	50	100	1		1				
							8	44.0	36		
NA-01-134	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
		8 C	25	50	1		1	2			
		15 C	50	100	1			1			
		18 C	50	125	1			1			
							5	84.4	22		
NA-01-135	Yes	5 C	25	25	1		1	2		No sulphides. No PGMs.	
		8 C	25	50	2			2			
		10 C	50	50			1	1			
							5	36.1	11		
NA-01-140	Yes	7 C	15	50	1			1		No sulphides. No PGMs.	
		5 C	25	25	1		1	2			
		8 C	25	50	1			1			
		10 C	50	50	1			1			
		20 C	75	125	1			1			
		29 C	100	200	1		1				
							7	81.1	84		
NA-01-144	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
		8 C	25	50	1			1			
		13 C	50	75	1			1			
							3	25.3	19		
NA-01-146	Yes	8 C	25	50	1			1		No sulphides. No PGMs.	
							1	494.1	<1		
NA-01-151	Yes	8 C	25	50	1			1		No sulphides. No PGMs.	
		10 C	50	50	1			1			
		13 C	50	75	1			1			
							3	20.4	32		
NA-01-154	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
		10 C	50	50	1			1			
		13 C	50	75	1			1			
		25 C	125	125	1			1			
							4	139.7	25		
NA-01-156	Yes	5 C	25	25	2			2		No sulphides. No PGMs.	
		8 C	25	50	1			1			
							3	35.2	4		
NA-01-157	Yes	10 C	50	50	1			1		No sulphides. No PGMs.	
		13 C	50	75	1			1			
		20 C	75	125	1			1			
							3	60.6	34		

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-164	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		10 C	50	50	1			1			
								2	21.9	10	
NA-01-171	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
							1	705.2	<1		
NA-01-175	Yes	8 C	25	50	2			2			No sulphides. No PGMs.
		10 C	50	50	1			1			
		13 C	50	75	1			1			
								4	38.2	19	
NA-01-178	Yes	5 C	25	25	1		2	3			No sulphides. No PGMs.
		8 C	25	50	1		2	3			
		10 C	25	75	2			2			
		13 C	25	100	1			1			
		13 C	50	75		2		2			
		20 C	75	125		1		1			
							1	12	101.9	33	
NA-01-187	Yes	8 C	25	50			2	2			No sulphides. No PGMs.
		10 C	50	50	1			1			
								3	151.3	2	
NA-01-191	Yes	4 C	15	25	1			1			No sulphides. No PGMs.
		7 C	15	50	1			1			
		15 C	50	100	1			1			
							3	26.3	27		
NA-01-192	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-194	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
							1	595.5	<1		
NA-01-196	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		8 C	25	50	1			1			
		10 C	50	50	1			1			
								3	49.3	6	
NA-01-199	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		8 C	25	50	3			3			
		10 C	50	50	1			1			
		13 C	50	75	1			1			
		18 C	50	125	1			1			
								7	46.5	40	
NA-01-200	Yes	8 C	25	50	1			1			30% marcasite 25µ. No PGMs.
		15 C	75	75	1			1			
								2	35.1	21	
NA-01-201	Yes	8 C	25	50	1			1			5% marcasite 25µ. No PGMs.
		10 C	25	75	1			1			
		10 C	50	50	1			1			
		13 C	50	75	2			2			
								5	65.8	18	
NA-01-203	Yes	10 C	25	75	1			1			No sulphides. No PGMs.
		10 C	50	50		1		1			
		13 C	50	75	1			1			
		15 C	50	100	1			1			
		18 C	50	125	2			2			
		22 C	75	150	1			1			
								7	148.1	37	
NA-01-205	Yes	7 C	15	50		1		1			No sulphides. No PGMs.
		10 C	50	50	1			1			
		175 M	400	500			1	1			
							1	3	31.5	8445	

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-206	Yes	4 C	15	25	1			1			No sulphides. No PGMs.
		8 C	25	50	3			3			
		10 C	25	75	1			1			
		10 C	50	50	3			3			
		20 C	75	125	1			1			
								9	170.6	15	
NA-01-208	Yes	8 C	25	50	3			3			No sulphides. No PGMs.
		10 C	50	50	2			2			
		13 C	50	75	1			1			
								6	307.5	3	
NA-01-213	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-216	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
		10 C	50	50	1			1			
		15 C	50	100	1			1			
		18 C	75	100	1			1			
								4	86.2	22	
NA-01-219	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
		13 C	50	75	1			1			
		18 C	50	125	1			1			
								3	30.9	47	
NA-01-224	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		8 C	25	50	1			1			
								2	23.1	5	
NA-01-227	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-231	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
								1	59.8	3	
NA-01-234	Yes	NO VISIBLE GOLD									-50 grains marcasite 25µ. No PGMs.
NA-01-235	Yes	4 C	15	25	1			1			No sulphides. No PGMs.
		8 C	25	50	2			2			
		10 C	50	50	1			1			
								4	55.9	7	
NA-01-238	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
								1	17.3	11	
NA-01-243	Yes	4 C	15	25	1			1			No sulphides. No PGMs.
		8 C	25	50	2			2			
								3	32.6	9	
NA-01-244	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-247	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
								1	20.8	4	
NA-01-249	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
								1	8.5	10	
NA-01-253	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-254	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
								1	38.4	1	
NA-01-256	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-257	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
								1	25.6	3	
NA-01-260	Yes	13 C	50	75	1	1		2			No sulphides. No PGMs.
		50 M	75	125	1			1			
								3	50.9	88	

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-263	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-265	Yes	7 C	15	50	1			1		No sulphides. No PGMs.	
		5 C	25	25	1			1			
		8 C	25	50	1			1			
		13 C	50	75	1			1			
								4	51.9	10	
NA-01-268	Yes	4 C	15	25	1	1		2		No sulphides. No PGMs.	
		5 C	25	25	3			3			
		8 C	25	50	4			4			
		10 C	25	75	2			2			
		10 C	50	50	2			2			
		13 C	50	75	3			3			
								16	106.4	22	
NA-01-274	Yes	8 C	25	50	1			1		No sulphides. No PGMs.	
		18 C	75	100	1			1			
								2	26.4	41	
NA-01-275	Yes	5 C	25	25	2			2		No sulphides. No PGMs.	
		8 C	25	50	1			1			
		13 C	50	75	1			1			
		15 C	75	75	1			1			
								5	39.1	29	
NA-01-35	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-38	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-39	Yes	20 C	75	125	1			1		No sulphides. No PGMs.	
		22 C	100	125	1			1			
								2	33.8	107	
NA-01-40	Yes	4 C	15	25	2			2		No sulphides. No PGMs.	
		8 C	25	50	2			2			
		10 C	50	50	4			4			
		13 C	50	75	1			1			
		15 C	50	100	1			1			
		18 C	50	125	2			2			
		15 C	75	75	1			1			
								13	339.3	14	
NA-01-41	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-44	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
		8 C	25	50	2	1		3			
		10 C	25	75	1	1		2			
		13 C	50	75	1			1			
		15 C	50	100	1			1			
		15 C	75	75	1			1			
								9	126.4	18	
NA-01-46	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-47	Yes	4 C	15	25	1			1		No sulphides. No PGMs.	
		5 C	25	25	1			1			
								2	13.5	3	
NA-01-49	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
		10 C	50	50	1			1			
		13 C	50	75	1			1			
								3	94.6	6	
NA-01-51	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-52	Yes	3 C	15	15	1			1			No sulphides. No PGMs.
		4 C	15	25	1	1		2			
		5 C	25	25	3	1		4			
		8 C	25	50	3	1		4			
		10 C	25	75		1		1			
		13 C	25	100	1			1			
		10 C	50	50	1			1			
		13 C	50	75	1			1			
		18 C	75	100	1			1			
		20 C	75	125	1			1			
								17	179.8	23	
NA-01-56	Yes	18 C	75	100	1			1			No sulphides. No PGMs.
								1	37.5	27	
NA-01-57	Yes	NO VISIBLE GOLD									~100 grains marcasite 25µ. No PGMs.
NA-01-60	Yes	5 C	25	25	1	1		2			No sulphides. No PGMs.
		10 C	25	75		1		1			
		36 C	125	250	1			1			
								4	79.5	122	
NA-01-61	Yes	29 C	125	175	1			1			No sulphides. No PGMs.
								1	37.9	130	
NA-01-63	Yes	15 C	50	100	1			1			No sulphides. No PGMs.
								1	73.6	9	
NA-01-64	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-65	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-66	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-68	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-69	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-73	Yes	8 C	25	50	2			2			No sulphides. No PGMs.
		13 C	50	75	1			1			
								3	76.0	7	
NA-01-82	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		10 C	50	50	1			1			
		13 C	50	75	1			1			
		18 C	50	125	1			1			
								4	27.6	58	
NA-01-90	Yes	5 C	25	25	2			2			No sulphides. No PGMs.
		8 C	25	50	1			1			
								3	19.8	7	
NA-01-91	Yes	13 C	50	75	1			1			No sulphides. No PGMs.
								1	26.8	14	
NA-01-92	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
								1	18.8	1	
NA-01-93	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-94	Yes	13 C	50	75	1			1			No sulphides. No PGMs.
		15 C	50	100	1			1			
								2	23.8	43	
NA-01-98	Yes	13 C	50	75	1			1			No sulphides. No PGMs.
		38 C	150	250	1			1			
								2	18.1	650	

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-101	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		8 C	25	50	1			1			
		13 C	50	75		1		1			
		18 C	75	100	1			1			
								4	58.7	25	
NA-01-106	Yes	NO VISIBLE GOLD									-100 grains marcasite 25µ. No PGMs.
NA-01-113	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		13 C	50	75	1			1			
		20 C	50	150	1			1			
								3	22.9	83	
NA-01-114	Yes	3 C	15	15	1			1			No sulphides. No PGMs.
		4 C	15	25	1		1	2			
		5 C	25	25	3		3	6			
		8 C	25	50	3		3	3			
		10 C	25	75	1		1	1			
		10 C	50	50	2		2	2			
								15	84.6	12	
NA-01-118	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
								1	18.2	4	
NA-01-119	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		15 C	50	100	1			1			
		20 C	75	125	1			1			
								3	25.6	85	
NA-01-125	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-126	Yes	10 C	50	50	1			1			10 grains pyrite 75µ. No PGMs.
								1	35.5	5	
NA-01-127	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-131	Yes	13 C	50	75	1			1			No sulphides. No PGMs.
								1	34.2	11	
NA-01-133	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		8 C	25	50	1			1			
		10 C	25	75	1			1			
		13 C	50	75	1			1			
								4	34.8	19	
NA-01-136	Yes	10 C	50	50	2			2			No sulphides. No PGMs.
		18 C	75	100	1			1			
		20 C	75	125	1			1			
								4	18.0	161	
NA-01-137	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-139	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
		13 C	50	75	1			1			
								2	20.4	28	
NA-01-142	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
		13 C	50	75	1			1			
								2	17.3	33	
NA-01-143	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
		18 C	75	100	1			1			
								2	17.9	67	
NA-01-145	Yes	3 C	15	15	1			1			No sulphides. No PGMs.
		7 C	15	50	1			1			
		8 C	25	50	1			1			
		13 C	50	75	1			1			
								4	30.4	17	

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-149	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
		8 C	25	50	4			4			
								5	16.6	21	
NA-01-153	Yes	5 C	25	25		1		1		No sulphides. No PGMs.	
								1	21.2	1	
NA-01-158	Yes	8 C	25	50	1			1		No sulphides. No PGMs.	
								1	30.9	3	
NA-01-163	Yes	7 C	15	50		1		1		No sulphides. No PGMs.	
		8 C	25	50	1			1			
		10 C	50	50	1			1			
								3	23.6	14	
NA-01-166	Yes	3 C	15	15			2	2		No sulphides. No PGMs.	
		4 C	15	25	1			1			
		5 C	25	25	1			1			
		8 C	25	50		1		1			
		13 C	50	75	1			1			
		25 C	100	150	1			1			
								7	21.9	155	
NA-01-167	Yes	5 C	25	25			1	1		No sulphides. No PGMs.	
		8 C	25	50			1	1			
		10 C	50	50	1			1			
								3	47.0	6	
NA-01-168	Yes	NO VISIBLE GOLD								No sulphides. No PGMs.	
NA-01-169	Yes	7 C	15	50	1		1	2		No sulphides. No PGMs.	
		5 C	25	25	2			2			
		10 C	50	50	1			1			
		20 C	75	125	1			1			
								6	19.8	93	
NA-01-173	Yes	3 C	15	15	1			1		No sulphides. No PGMs.	
								1	15.5	<1	
NA-01-174	Yes	15 C	75	75	1			1		No sulphides. No PGMs.	
		18 C	75	100	1			1			
								2	27.6	60	
NA-01-181	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
		8 C	25	50	1			1			
		10 C	50	50	1			1			
		13 C	50	75	1			1			
								4	64.1	10	
NA-01-185	Yes	10 C	25	75	1			1		No sulphides. No PGMs.	
		10 C	50	50	1			1			
								2	21.8	18	
NA-01-186	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
								1	32.9	1	
NA-01-189	Yes	10 C	50	50			1	1		No sulphides. No PGMs.	
								1	29.8	6	
NA-01-190	Yes	NO VISIBLE GOLD								No sulphides. No PGMs.	
NA-01-193	Yes	NO VISIBLE GOLD								No sulphides. No PGMs.	
NA-01-195	Yes	15 C	50	100	2			2		No sulphides. No PGMs.	
								2	39.2	33	
NA-01-198	Yes	8 C	25	50	1			1		No sulphides. No PGMs.	
								1	19.7	4	
NA-01-209	Yes	13 C	50	75			1	1		No sulphides. No PGMs.	

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
		22 C	100	125	1			1			
								2	26.1	96	
NA-01-210		4 C	15	25		1		1			
								1	52.9	<1	
NA-01-211	Yes	8 C	25	50	2			2			No sulphides. No PGMs.
								2	47.4	3	
NA-01-225	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
								1	35.7	2	
NA-01-229	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-230	Yes	13 C	50	75	1			1			~200 gr pyrite 100µ. No PGMs.
								1	48.5	8	
NA-01-232	Yes	5 C	25	25	1			1			No sulphides. No PGMs.
		10 C	25	75	1			1			
		13 C	50	75	2			2			
								4	103.1	9	
NA-01-233	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-236	Yes	13 C	50	75	1			1			No sulphides. No PGMs.
								1	14.1	26	
NA-01-237	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-240	Yes	15 C	50	100	1			1			No sulphides. No PGMs.
								1	40.4	16	
NA-01-241	Yes	10 C	50	50	1			1			No sulphides. No PGMs.
								1	34.4	6	
NA-01-245	Yes	5 C	25	25	1	1		2			No sulphides. No PGMs.
		8 C	25	50	1			1			
		10 C	50	50	1			1			
		15 C	50	100	1			1			
								5	33.5	29	
NA-01-255	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-264	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
		13 C	50	75	1			1			
								2	69.8	7	
NA-01-269	Yes	15 C	75	75	1			1			No sulphides. No PGMs.
								1	41.0	16	
NA-01-170	Yes	4 C	15	25	1			1			No sulphides. No PGMs.
		5 C	25	25	1			1			
		8 C	25	50	1			1			
		15 C	50	100	1			1			
		18 C	75	100	1			1			
								5	36.1	49	
NA-01-76	Yes	8 C	25	50	1			1			No sulphides. No PGMs.
		10 C	50	50	1			1			
		13 C	50	75	1			1			
		15 C	50	100	1			1			
								4	115.4	11	
NA-01-77	Yes	15 C	50	100	1			1			No sulphides. No PGMs.
								1	44.0	15	
NA-01-78	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-86	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-87	Yes	10 C	50	50	1			1			No sulphides. No PGMs.

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
		13 C	50	75				1			
		15 C	50	100				1			
								3	34.5	35	
NA-01-99	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-103	Yes	10 C	25	75				1			No sulphides. No PGMs.
		18 C	75	100				1			
		20 C	75	125				1			
								3	22.5	120	
NA-01-105	Yes	22 C	100	125				1			No sulphides. No PGMs.
								1	15.4	138	
NA-01-107	Yes	5 C	25	25				1			No sulphides. No PGMs.
		8 C	25	50				1			
		15 C	75	75				1			
								3	73.7	10	
NA-01-109	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-111	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-115	Yes	8 C	25	50				1			No sulphides. No PGMs.
								1	354.0	<1	
NA-01-120	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-121	Yes	4 C	15	25				1			No sulphides. No PGMs.
		5 C	25	25				1			
		8 C	25	50				1			
		10 C	25	75				1			
		10 C	50	50				2			
		15 C	50	100				1			
								7	317.5	4	
NA-01-122	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-124	Yes	8 C	25	50				1			No sulphides. No PGMs.
		10 C	25	75				1			
								2	27.1	10	
NA-01-128	Yes	5 C	25	25				1			No sulphides. No PGMs.
		13 C	50	75				1			
								2	66.0	6	
NA-01-130	Yes	10 C	50	50				2			No sulphides. No PGMs.
		20 C	75	125				1			
		22 C	100	125				1			
								4	55.2	73	
NA-01-132	Yes	8 C	25	50				1			No sulphides. No PGMs.
								1	32.3	3	
NA-01-138	Yes	15 C	50	100				1			No sulphides. No PGMs.
		29 C	125	175				1			
								2	60.7	92	
NA-01-141	Yes	15 C	50	100				1			No sulphides. No PGMs.
								1	68.1	9	
NA-01-147	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-148	Yes	8 C	25	50				1			No sulphides. No PGMs.
		13 C	50	75			1	1			
		25 C	100	150			1	1			
								3	195.0	17	
NA-01-150	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-152	Yes	15 C	75	75				1			No sulphides. No PGMs.

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
								1	17.9	36	

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-155	Yes	8 C	25	50	1			1	48.5	4	No sulphides. No PGMs.
		10 C	50	50	2			2			
								3			
NA-01-159	Yes	5 C	25	25	2			2	199.1	28	No sulphides. No PGMs.
		8 C	25	50	3			3			
		10 C	50	50	1	1		2			
		29 C	150	150	1			1			
								8			
NA-01-160	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-161	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-162	Yes	10 C	25	75	1			1	95.8	11	1 gr osmiridium 25µ.
		10 C	50	50	1			1			
		15 C	50	100	1			1			
								3			
NA-01-165	Yes	15 C	50	100	2			2	27.7	46	No sulphides. No PGMs.
								2			
NA-01-172	Yes	5 C	25	25	1			1	123.5	1	No sulphides. No PGMs.
		8 C	25	50	1			1			
								2			
NA-01-176	Yes	22 C	100	125	1			1			No sulphides. No PGMs.
								1	3.2	663	
NA-01-177	Yes	13 C	50	75		1		1	34.6	11	No sulphides. No PGMs.
								1			
NA-01-179	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-180	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-182	Yes	5 C	25	25	3			3	262.8	108	No sulphides. No PGMs.
		8 C	25	50	2			2			
		10 C	50	50	1			1			
		13 C	50	75	1			1			
		15 C	50	100	2			2			
		18 C	75	100	1			1			
		75 M	125	300	1			1			
								11			
NA-01-183	Yes	8 C	25	50	3		1	4	40.9	37	No sulphides. No PGMs.
		10 C	50	50	1			1			
		18 C	75	100	1			1			
								6			
NA-01-184	Yes	NO VISIBLE GOLD									-1000 gr marcasite 25µ. No PGMs.
NA-01-188	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-197	Yes	3 C	15	15			1	1	67.9	72	No sulphides. No PGMs.
		9 C	15	75			1	1			
		5 C	25	25	1			2			
		8 C	25	50	7		2	9			
		10 C	25	75	3			3			
		10 C	50	50	2			2			
		20 C	75	125	2			2			
								20			
NA-01-202	Yes	7 C	15	50	2			2	102.3	12	No sulphides. No PGMs.
		8 C	25	50	1			1			
		18 C	75	100	1			1			
						4					

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-204	Yes	4 C	15	25	3		1		4		No sulphides. No PGMs.
		7 C	15	50	3				3		
		5 C	25	25	8				8		
		8 C	25	50	9				9		
		10 C	50	50	6				6		
		13 C	50	75	4				4		
		15 C	50	100	1				1		
		18 C	50	125	2				2		
		15 C	75	75	1				1		
		20 C	75	125	1				1		
		22 C	100	125	1				1		
								40	160.8	67	
NA-01-207	Yes	4 C	15	25	2				2		No sulphides. No PGMs.
		5 C	25	25	2				2		
		8 C	25	50	2				2		
								6	121.9	2	
NA-01-212	Yes	4 C	15	25			1		1		No sulphides. No PGMs.
		5 C	25	25	2				2		
		8 C	25	50	2				2		
		10 C	25	75	1				1		
		10 C	50	50	1				1		
		15 C	50	100	1				1		
								8	132.9	9	
NA-01-214	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-215	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-217	Yes	22 C	75	150	1				1		No sulphides. No PGMs.
									1	65.9	
NA-01-218	Yes	18 C	75	100	1				1		No sulphides. No PGMs.
		25 C	100	150	1				1		
								2	47.4	82	
NA-01-220	Yes	10 C	50	50	1				1		No sulphides. No PGMs.
									1	37.8	
NA-01-221	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-222	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-223	Yes	18 C	75	100	1				1		No sulphides. No PGMs.
									1	30.9	
NA-01-226	Yes	13 C	25	100	1				1		No sulphides. No PGMs.
		13 C	50	75	1				1		
		20 C	100	100	1				1		
								3	46.2	49	
NA-01-228	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-239	Yes	5 C	25	25	1				1		-50 gr pyrite 25µ. No PGMs.
		22 C	100	125	1				1		
									2	267.8	
NA-01-242	Yes	5 C	25	25	2				2		No sulphides. No PGMs.
		15 C	75	75	1				1		
		18 C	75	100	1				1		
								4	289.9	6	
NA-01-246	Yes	8 C	25	50	1				1		No sulphides. No PGMs.
		10 C	50	50	1				1		
		13 C	50	75	1				1		
								3	78.8	8	
NA-01-248	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-250	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
NA-01-251	Yes	8 C	25	50	1			1		No sulphides. No PGMs.	
		13 C	50	75	3			3			
								4	34.7	35	
NA-01-252	Yes	10 C	50	50	1			1		No sulphides. No PGMs.	
		13 C	50	75	1	1		2			
								3	71.5	13	
NA-01-258	Yes	10 C	50	50	1			1		No sulphides. No PGMs.	
		15 C	50	100	1			1			
								2	749.8	1	
NA-01-259	Yes	5 C	25	25	1			1		No sulphides. No PGMs.	
		8 C	25	50	1	1		2			
		13 C	50	75	1			1			
								4	93.7	6	
NA-01-261	Yes	15 C	75	75	1			1		No sulphides. No PGMs.	
								1	169.9	4	
NA-01-262	Yes	13 C	50	75	1			1		No sulphides. No PGMs.	
								1	168.9	2	
NA-01-266	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-267	Yes	8 C	25	50	1			1		No sulphides. No PGMs.	
		10 C	50	50	1			1			
								2	134.0	2	
NA-01-270	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-271	Yes	NO VISIBLE GOLD									No sulphides. No PGMs.
NA-01-272	Yes	8 C	25	50	1			1		No sulphides. No PGMs.	
		10 C	25	75	1			1			
		13 C	50	75	3			3			
		15 C	50	100	1			1			
		18 C	75	100		1		1			
								7	102.0	30	
NA-01-273	No	10 C	50	50	1			1		~200 gr marcasite (25µ). No PGMs.	
		13 C	50	75	1			1			
		18 C	75	100		1		1			
								3	38.1	41	

**OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG
KIMBERLITE INDICATOR MINERAL COUNTS**

Field no	Lab no	<2.0 mm Table Concentrate (g)										Selected MMSIMs			KIM Count															Total KIMs							
		Total	Heavy Liquid Separation S.G 3.20					Total	%	Weight	1.0 to 2.0 mm	1.0 to 2.0 mm	0.25 to 0.5 mm	1.0 to 2.0 mm					0.5 to 1.0 mm					0.25 to 0.5 mm													
			Heavy Liquid Lights	Mag HMC	Nonferromagnetic HMC									Low-Cr diopside	Low-Cr diopside	Low-Cr diopside	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO	GP		GO	DC	IM	CR	FO		
					Processed Split																																
					Total																																
					<0.25 mm (wash)	-0.25 mm	0.25 to 0.5 mm	0.5 to 1.0 mm	1.0 to 2.0 mm																												
96TCA1	114	808.3	703.9	19.8	84.6	100	84.6	1.6	68.6	10.6	2.8	1.00	0	5	63	0	0	0	1	0	1	4	4	2	3	0	14	21	11	16	22	17	49	165			
96TCA1	197	668.6	581.4	19.3	67.9	100	67.9	0.7	56.8	7.8	1.9	0.7	0	10	88	0	0	0	0	0	0	3	5	2	1	0	9	18	19	16	14	13	26	126			
96TCA2	95	1,241.1	1,133.7	20.2	87.2	100	87.2	0.6	70.4	11.1	3.4	1.70	0	13	78	0	0	0	0	0	1	2	2	5	1	0	5	21	19	14	15	29	31	145			

* Values greater than 0.1 g were weighed only to one decimal place; the zero was added in the second decimal position to facilitate column alignment.

** Numbers in brackets are estimated total indicator grains present in samples where not all of the grains were picked.

Field #	Lab #	REMARKS:
A02	168	SEM check from 1.0-2.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 1 well-worn, second-cycle CR versus crustal ilmenite candidate = 1 crustal ilmenite.
A03	68	No KIM remarks.
A04	35	SEM checks from 0.5-1.0 mm fraction: 2 CR versus crustal ilmenite candidates = 1 crustal ilmenite and 1 rutile. SEM checks from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 almandine; and 5 CR versus IM candidates = 1 CR and 4 crustal ilmenite.
A05	38	Sole CR from 0.25-0.5 mm fraction lost in transfer to vial.
A06	209	SEM check from 0.25-0.5 mm fraction: 1 CR candidate = 1 CR.
A07	255	Sole CR from 0.25-0.5 mm fraction lost in transfer to vial.
A08	119	No KIM remarks.
A09	241	No KIM remarks.
A10	133	SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 2 IM versus crustal ilmenite candidate = 2 crustal ilmenite. SEM checks from 1.0-2.0 mm fraction: 2 IM versus crustal ilmenite candidates = 1 crustal ilmenite and 1 tourmaline. SEM checks from 0.5-1.0 mm fraction: 10 IM versus crustal ilmenite candidates = 1 IM with weak MgO, no Cr ₂ O ₃ and mantled by CrZn-spinel and 9 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 5 IM versus crustal ilmenite candidates = 5 crustal ilmenite; and 4 CR versus crustal ilmenite candidates = 2 CR and 2 crustal ilmenite.
A11	5	
A12	126	No KIM remarks.
A13	137	No KIM remarks.
B02	118	No KIM remarks.
B03	82	No KIM remarks.
B04	91	SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 almandine; and 1 CR versus crustal ilmenite candidate = 1 crustal ilmenite.
B05	240	
B06	153	No KIM remarks.
B07	233	No KIM remarks.
B08	245	No KIM remarks.
B09	98	SEM checks from 0.25-0.5 mm fraction: 3 IM versus crustal ilmenite candidates = 1 crustal ilmenite and 2 SiO ₂ (silica glass contamination).
B10	11	SEM check from 0.25-0.5 mm fraction: 1 CR versus hercynite candidate = 1 CR.
B11	56	SEM checks from 0.25-0.5 mm fraction: 3 CR versus rutile candidates = 2 CR and 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 3 IM versus crustal ilmenite candidates = 3 crustal ilmenite.
B12	173	
C02	189	No KIM remarks.
C03	51	SEM checks from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 almandine; and 2 CR versus crustal ilmenite candidate = 1 CR and 1 crustal ilmenite.
C04	6	SEM checks from 0.25-0.5 mm fraction: 10 CR versus crustal ilmenite candidates = 1 CR and 9 crustal ilmenite. SEM check from 0.5-1.0 mm fraction: 1 FO versus enstatite candidate = 1 enstatite. SEM checks from 0.25-0.5 mm fraction: 6 CR versus IM candidates = 2 CR and 4 crustal ilmenite.
C05a	93	
C05b	46	SEM checks from 0.25-0.5 mm fraction: 2 IM versus crustal ilmenite candidates = 2 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 3 CR versus crustal ilmenite candidates = 2 CR and 1
C06	237	crustal ilmenite.
C07	145	No KIM remarks.

Field #	Lab #	REMARKS:
C08	136	SEM checks from 0.25-0.5 mm fraction: 1 IM versus rutile candidate = 1 IM; and 1 FO versus zoisite candidate = 1 diopside.
C09	131	No KIM remarks.
C10	210	SEM checks from 0.25-0.5 mm fraction: 8 CR versus crustal ilmenite candidates = 1 CR, 6 crustal ilmenite and 1 tourmaline.
C11	169	SEM checks from 0.25-0.5 mm fraction: 2 FO versus zoisite candidates = 1 corundum and 1 enstatite.
C12	166	SEM checks from 0.25-0.5 mm fraction: 3 CR versus crustal ilmenite candidates = 2 CR and 1 crustal ilmenite.
D02	143	No KIM remarks.
D03	149	No KIM remarks.
D04	9	SEM checks from 0.5-1.0 mm fraction: 3 IM versus crustal ilmenite candidates = 3 crustal ilmenite; and 1 FO versus enstatite candidate = 1 enstatite. SEM checks from 0.25-0.5 mm fraction: 9 IM versus crustal ilmenite candidates = 8 crustal ilmenite and 1 CR.
D05	106	No KIM remarks.
D06	3	SEM checks from 0.5-1.0 mm fraction: 1 GO versus almandine candidate = 1 spessartine; and 1 CR versus hercynite candidate = 1 CR. SEM checks from 0.25-0.5 mm fraction: 2 CR versus 3 crustal ilmenite candidates = 1 CR and 1 crustal ilmenite.
D07	14	No KIM remarks.
D08	230	No KIM remarks.
D09	139	No KIM remarks.
D10	127	No KIM remarks.
D11	39	SEM checks from 0.5-1.0 mm fraction: 5 IM versus crustal ilmenite candidates = 5 crustal ilmenite.
D12	225	No KIM remarks.
E02	92	No KIM remarks.
E03	190	No KIM remarks.
E04	186	No KIM remarks.
E05	61	SEM checks from 0.25-0.5 mm fraction: 3 CR candidates = 3 CR (one is Zn-bearing).
E06	12	No KIM remarks.
E07	195	SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite.
E08	113	SEM checks from 0.25-0.5 mm fraction: 2 CR versus crustal ilmenite candidates = 1 CR and 1 crustal ilmenite.
E09	181	SEM checks from 0.25-0.5 mm fraction: 2 IM versus crustal ilmenite candidates = 2 crustal ilmenite; and 4 CR versus crustal ilmenite candidates = 1 CR and 3 crustal ilmenite.
E10	101	No KIM remarks.
E11	167	No KIM remarks.
F02	185	SEM check from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 almandine.
F03	198	SEM checks from 0.25-0.5 mm fraction: 4 CR versus rutile candidates = 2 CR and 2 crustal ilmenite; and 1 FO versus diopside candidate = 1 zoisite.
F04	211	No KIM remarks.
F05	142	No KIM remarks.
F06	57	No KIM remarks.
F07	64	SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 2 CR versus crustal ilmenite candidates = 1 CR and 1 crustal ilmenite.
F08A	269	SEM checks from 0.25-0.5 mm fraction: 3 CR versus rutile candidates = 3 crustal ilmenite. SEM checks from 0.5-1.0 mm fraction: 2 CR versus crustal ilmenite candidates = 2 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 4 CR versus crustal ilmenite candidates = 4
F08B	264	crustal ilmenite.
F09	229	No KIM remarks.
F10	158	No KIM remarks.

Field #	Lab #	REMARKS:
G02	125	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 6 CR versus IM candidates = 3 CR and 3 crustal
G03	94	ilmenite. SEM checks from 0.25-0.5 mm fraction: 3 IM versus crustal ilmenite candidates = 3 crustal
G04	163	ilmenite.
G05	236	No KIM remarks.
G06	90	No KIM remarks.
G07	174	SEM check from 0.5-1.0 mm fraction: 1 IM versus CR candidate = 1 CR. SEM checks from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
G08	193	ilmenite; and 1 FO versus diopside candidate = 1 corundum. SEM checks from 0.25-0.5 mm fraction: 4 CR versus rutile candidates = 1 CR and 3 crustal
G09	232	ilmenite. SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
G10	22	ilmenite.
H02	222	No KIM remarks.
H03	179	No KIM remarks. SEM checks from 0.5-1.0 mm fraction: 2 CR versus goethite candidates = 1 CR and 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 almandine; 3 CR versus crustal ilmenite candidates = 1 CR and 2 crustal ilmenite; and 1 FO
H04	105	versus epidote candidate = 1 zoisite.
H05	124	No KIM remarks. SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 6 IM versus CR candidates = 1 CR and 5
H06	77	crustal ilmenite.
H07	170	SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 CR.
H08	132	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
H09	271	ilmenite; and 1 CR versus crustal ilmenite candidate = 1 Ti-andradite. SEM checks from 0.5-1.0 mm fraction: 5 IM versus crustal ilmenite candidates = 5 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 5 IM versus crustal ilmenite candidates = 5
H10	7	crustal ilmenite.
I02	34	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 3 CR versus crustal ilmenite candidates = 2 CR and 1
I03	87	IM.
I04	165	No KIM remarks. SEM check from 0.25-0.5 mm fraction: 1 CR versus crustal ilmenite candidate = 1 crustal
I05	217	ilmenite. SEM checks from 0.25-0.5 mm fraction: 1 DC versus Cr-garnet candidate = 1 DC; and 6 CR
I06	13	versus tourmaline candidates = 4 CR and 2 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 5 CR versus crustal ilmenite candidates = 5 crustal
I07	86	ilmenite. SEM checks from 0.5-1.0 mm fraction: 1 GP versus GO candidate = 1 GP; 5 IM versus crustal ilmenite candidates = 5 crustal ilmenite; and 3 FO versus fayalite candidates = 3 fayalite.
I08	73	
I09	60	No KIM remarks.
I10	155	No KIM remarks.
J02	66	No KIM remarks.
J03	47	No KIM remarks.
J04	103	No KIM remarks.
J05	226	No KIM remarks.
J06	183	No KIM remarks. SEM check from 0.25-0.5 mm fraction: 1 well-worn, second-cycle GP versus zircon candidate =
J07	204	1 GP.

Field #	Lab #	REMARKS:
J08	107	SEM checks from 0.25-0.5 mm fraction: 13 CR versus crustal ilmenite candidates = 3 CR and 10 crustal ilmenite; and 3 FO versus fayalite candidates = 2 FO and 1 fayalite.
J09	130	SEM checks from 0.25-0.5 mm fraction: 3 IM versus crustal ilmenite candidates = 3 crustal ilmenite.
J10	20	SEM check from 0.25-0.5 mm fraction: 1 CR versus andradite candidate = 1 CR.
K02	273	No KIM remarks.
K03	41	SEM checks from 0.25-0.5 mm fraction: 5 CR versus IM candidates = 4 CR and 1 crustal ilmenite.
K04	250	No KIM remarks.
K05	21	No KIM remarks.
K06	261	SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 5 CR versus crustal ilmenite candidates = 1 CR and 4 crustal ilmenite; and 5 FO versus fayalite candidates = 5 FO (Fo60).
K07	148	SEM checks from 0.25-0.5 mm fraction: 7 CR versus crustal ilmenite candidates = 1 CR (high Al) and 6 crustal ilmenite.
K08	121	SEM checks from 0.25-0.5 mm fraction: 6 IM versus crustal ilmenite candidates = 6 crustal ilmenite; and 2 FO versus diopside candidates = 2 FO. Sole GP from 0.25-0.5 mm fraction is a well-worn, second-cycle grain.
K09	111	SEM checks from 0.25-0.5 mm fraction: 3 FO versus zoisite candidates = 2 FO and 1 apatite.
K10	228	SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 2 IM versus crustal ilmenite candidates = 2 crustal ilmenite; and 1 FO versus epidote candidate = 1 FO.
L02	18	No KIM remarks.
L03	251	No KIM remarks.
L04	220	SEM checks from 0.25-0.5 mm fraction: 2 IM versus crustal ilmenite candidates = 2 crustal ilmenite.
L05E	23	SEM checks from 0.5-1.0 mm fraction: 5 IM versus crustal ilmenite candidates = 5 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 5 IM versus crustal ilmenite candidates = 5 crustal ilmenite.
L05W	4	SEM checks from 0.25-0.5 mm fraction: 3 IM versus crustal ilmenite candidates = 3 crustal ilmenite.
L06E	40	SEM check from 0.25-0.5 mm fraction: 1 FO versus diopside candidate = 1 FO.
L06WA	218	SEM checks from 0.25-0.5 mm fraction: 2 CR versus crustal ilmenite candidates = 2 crustal ilmenite.
L06WB	184	No KIM remarks.
L07	44	SEM checks from 0.5-1.0 mm fraction: 2 CR versus crustal ilmenite candidates = 2 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 9 CR versus crustal ilmenite candidates = 9 crustal ilmenite.
L08	267	No KIM remarks.
L09	19	SEM checks from 0.25-0.5 mm fraction: 2 CR candidates = 2 crustal ilmenite.
L10	99	SEM check from 0.25-0.5 mm fraction: 1 CR versus crustal ilmenite candidate = 1 CR.
L11	150	SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 4 IM versus crustal ilmenite candidates = 4 crustal ilmenite.
M02	78	No KIM remarks.
M03	152	No KIM remarks.
M04	248	No KIM remarks.
M05	29	No KIM remarks.
M06	49	No KIM remarks.
M07	172	SEM checks from 0.5-1.0 mm fraction: 2 IM versus crustal ilmenite candidates = 2 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 5 IM versus crustal ilmenite candidates = 5 crustal ilmenite.

Field #	Lab #	REMARKS:
M08	128	No KIM remarks.
M09	180	No KIM remarks.
M10	188	No KIM remarks.
M11	120	No KIM remarks.
N03	215	No KIM remarks.
N04	147	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 5 IM versus crustal ilmenite candidates = 4 crustal
N05	138	ilmenite and 1 CR.
N06	202	SEM checks from 0.25-0.5 mm fraction: 6 IM versus CR candidates = 6 crustal ilmenite.
N07	16	SEM check from 0.25-0.5 mm fraction: 1 CR candidate = 1 CR.
N08	259	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 2 IM versus crustal ilmenite candidates = 2 crustal
N09	32	ilmenite.
N10	242	No KIM remarks.
N11	266	No KIM remarks.
N12	270	No KIM remarks.
O03	177	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 2 IM versus crustal ilmenite candidates = 2 crustal
O04	8	ilmenite; and 2 CR versus rutile candidates = 2 crustal ilmenite.
O05	272	No KIM remarks. SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
O06	207	ilmenite. SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
O07	182	ilmenite. SEM checks from 0.25-0.5 mm fraction: 5 CR versus andradite candidates = 3 Ti- andradite and 2 crustal ilmenite. SEM checks from 0.5-1.0 mm fraction: 5 IM versus crustal ilmenite candidates = 5 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 1 CR versus andradite candidate = 1 Ti-
O08	212	andradite; and 2 FO versus fayalite candidates = 2 FO (Mg-poor).
O09	246	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 10 IM versus crustal ilmenite candidates = 10 crustal
O10	162	ilmenite.
O11	221	No KIM remarks.
O12	65	No KIM remarks.
P03	37	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 3 CR versus rutile candidates = 2 CR and 1 crustal
P04	28	ilmenite.
P05	206	No KIM remarks.
P06	268	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 grossular; and 7
P07	48	IM versus crustal ilmenite candidates = 5 crustal ilmenite and 2 CR.
P08	247	No KIM remarks. SEM checks from 0.5-1.0 mm fraction: 10 IM versus crustal ilmenite candidates = 10 crustal
P09	154	ilmenite. SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
P10	157	ilmenite.
P11	123	No KIM remarks. SEM checks from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
P12	62	ilmenite; and 1 CR versus crustal ilmenite candidate = 1 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 6 FO candidates = 6 FO. Sole FO from 0.5-1.0 mm
P13	10	fraction confirmed by SEM (see MMSIM notes). SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
Q02	72	ilmenite.
Q03	200	No KIM remarks.

Field #	Lab #	REMARKS:
Q03A	129	No KIM remarks.
Q04	257	No KIM remarks.
Q05	203	No KIM remarks.
Q06	108	No KIM remarks.
Q07	17	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 almandine; 2 IM versus crustal ilmenite candidates = 2 crustal ilmenite; and 1 CR versus andradite candidate = 1
Q08	156	andradite.
Q09	96	SEM checks from 0.5-1.0 mm fraction: 4 CR versus rutile candidates = 4 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 7 FO versus fayalite candidates = 6 FO and 1 epidote.
Q10	275	
Q11	58	No KIM remarks.
Q12	97	0.5-1.0 mm CR is chromitite (see MMSIM notes).
Q13	263	No KIM remarks.
R02	253	No KIM remarks.
R03	15	No KIM remarks.
R04	199	SEM check from 0.25-0.5 mm fraction: 1 CR versus tourmaline candidate = 1 CR.
R05	219	No KIM remarks.
R06	164	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 1 GP versus zircon candidate = 1 zircon; 1 GO versus staurolite candidate = 1 staurolite; and 4 IM versus crustal ilmenite candidates = 4 crustal
R07	134	ilmenite.
R08	24	No KIM remarks.
R09	201	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 5 IM versus crustal ilmenite candidates = 5 crustal
R10	151	ilmenite.
R11	213	No KIM remarks.
R12	194	No KIM remarks.
R13	192	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
R14	171	ilmenite; and 1 CR versus crustal ilmenite candidate = 1 crustal ilmenite.
R15	74	No KIM remarks.
S01	75	No KIM remarks.
S02	45	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 3 IM versus crustal ilmenite candidates = 2 crustal
S03	112	ilmenite and 1 CR; and 3 CR versus hematite candidates = 1 CR and 2 hematite. SEM checks from 0.25-0.5 mm fraction: 1 red-pink GP versus almandine candidate = 1 GP; 1 GO versus almandine candidate = 1 almandine; 5 IM versus crustal ilmenite candidates = 1 IM (moderate MgO), 3 crustal ilmenite and 1 CR; and 6 CR candidates = 4 CR and 2 crustal
S04	79	ilmenite. 1 CR is a well-worn, second-cycle grain. SEM checks from 0.25-0.5 mm fraction: 2 GO versus spessartine candidates = 2 staurolite.
S05	89	
S06	53	SEM check from 0.25-0.5 mm fraction: 1 GO versus grossular candidate = 1 grossular. SEM checks from 0.25-0.5 mm fraction: 2 IM versus crustal ilmenite candidates = 2 crustal
S07	224	ilmenite; and 1 FO versus diopside candidate = 1 siderite.
S08	81	No KIM remarks.
S09	249	No KIM remarks.
S10	55	No KIM remarks.
S11	84	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 6 CR versus crustal ilmenite candidates = 1 CR and 5
S12	116	crustal ilmenite.
S13	146	No KIM remarks.
S14	80	No KIM remarks.

Field #	Lab #	REMARKS:
S15	187	No KIM remarks. SEM check from 0.5-1.0 mm fraction: 1 FO versus fayalite candidate = 1 FO. SEM checks from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal ilmenite; and 5
S16	256	FO versus fayalite candidates = 5 FO. SEM checks from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
T01	71	ilmenite; and 1 CR candidate = 1 crustal ilmenite.
T02	144	SEM check from 0.25-0.5 mm fraction: 1 CR versus crustal ilmenite candidate = 1 CR. SEM checks from 0.25-0.5 mm fraction: 5 CR versus crustal ilmenite candidates = 2 CR and 3
T03	254	crustal ilmenite.
T04	265	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 7 CR versus IM candidates = 4 CR and 3 crustal
T05	88	ilmenite. SEM checks from 0.25-0.5 mm fraction: 5 GO versus almandine candidates = 5 almandine; 8
T06	140	IM versus crustal ilmenite candidates = 7 crustal ilmenite and 1 CR; and 1 FO versus diopside candidate = 1 enstatite. SEM checks from 0.25-0.5 mm fraction: 4 IM versus crustal ilmenite candidates = 1 IM and 3
T07	117	crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 1 GO versus almandine candidate = 1 almandine; 2 IM versus crustal ilmenite candidates = 2 crustal ilmenite; and 3 FO versus zoisite candidates = 2
T08	85	diopside and 1 andradite.
T09	67	No KIM remarks.
T10	27	No KIM remarks.
T11	33	No KIM remarks.
T11-2	260	SEM check from 0.25-0.5 mm fraction: 1 FO versus fayalite candidate = 1 zoisite.
T12	216	No KIM remarks.
T14	208	No KIM remarks.
T15	59	No KIM remarks.
T16	25	No KIM remarks.
U02	235	No KIM remarks.
U03	191	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 5 CR versus IM candidates = 4 CR and 1 Ti-andradite.
U04	83	
U05	54	No KIM remarks.
U08	234	No KIM remarks.
U09	31	No KIM remarks.
U10	135	No KIM remarks.
U11	205	No KIM remarks.
V02	70	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 7 CR versus tourmaline candidates = 6 CR and 1
V03	231	crustal ilmenite.
V04	50	No KIM remarks. SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 IM. SEM checks from 0.25-0.5 mm fraction: 3 CR versus crustal ilmenite candidates = 1 CR and 2 crustal
V06	227	ilmenite.
V07	36	No KIM remarks.
V08	238	No KIM remarks.
V09	178	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 2 CR with attached silicate = 2 CR + fayalite; 1 CR
W02	104	candidate = 1 CR; and 1 FO versus fayalite candidate = 1 siderite.
W03	102	SEM checks from 0.5-1.0 mm fraction: 2 FO versus zoisite candidates = 2 diopside.
W04	175	No KIM remarks. SEM checks from 0.25-0.5 mm fraction: 4 IM versus crustal ilmenite candidates = 1 IM and 3
W05	100	crustal ilmenite.

Field #	Lab #	REMARKS:
		SEM checks from 0.25-0.5 mm fraction: 1 DC versus Cr-garnet candidate = 1 DC; and 3 well-
W06	196	worn, second-cycle CR versus goethite candidates = 3 crustal ilmenite.
X01	43	No KIM remarks.
X02	243	No KIM remarks.
X03	274	No KIM remarks.
X04	110	No KIM remarks.
X05	244	No KIM remarks.
Y05	42	No KIM remarks.
Z01	109	No KIM remarks.
Z02	160	SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 IM.
Z03	223	No KIM remarks.
Z04	141	No KIM remarks.
		SEM check from 0.25-0.5 mm fraction: 1 IM versus crustal ilmenite candidate = 1 crustal
Z05	161	ilmenite.
Z06	176	No KIM remarks.
Z07	63	No KIM remarks.
Z08	258	SEM checks from 0.25-0.5 mm fraction: 5 FO versus diopside candidates = 5 FO.
Z09	239	SEM checks from 0.5-1.0 mm fraction: 6 FO versus diopside candidates = 6 FO.
		SEM checks from 0.25-0.5 mm fraction: 1 DC versus Cr-grossular candidate = 1 uvarovite; and
Z10	26	5 CR versus crustal ilmenite candidates = 3 CR and 2 crustal ilmenite.
Z11	262	No KIM remarks.
Z12	76	SEM checks from 0.25-0.5 mm fraction: 2 CR versus tourmaline candidates = 2 CR.
Z13	159	No KIM remarks.
Z14	52	No KIM remarks.
		SEM check from 0.5-1.0 mm fraction: 1 FO versus zoisite candidate = 1 FO. SEM checks from
Z15	30	0.25-0.5 mm fraction: 3 CR versus rutile candidates = 3 CR.
		SEM check from 0.5-1.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 IM. Sole IM
Z16	214	from 0.5-1.0 mm fraction shows major wear, indicating long transport.
Z17	252	No KIM remarks.
Z18	69	No KIM remarks.
Z19	122	No KIM remarks.
Z20	115	No KIM remarks.
		SEM checks from 0.5-1.0 mm fraction: 5 GO versus almandine candidates = 5 almandine. SEM
		checks from 0.25-0.5 mm fraction: 15 GO versus almandine candidates = 5 GO (Cr-poor
96TCA18	114	pyrope) and 10 almandine; 8 IM versus crustal ilmenite candidates = 1 IM, 4 CR and 3 crustal
		ilmenite; and 8 FO versus zoisite candidates = 6 FO and 2 zoisite.
		SEM checks from 0.5-1.0 mm fraction: 4 GO versus almandine candidates = 3 GO (Cr-poor
96TCA19	197	pyrope) and 1 almandine; 3 IM versus crustal ilmenite candidates = 1 IM and 2 crustal ilmenite;
		and 4 FO versus zoisite candidates = 2 FO, 1 zoisite and 1 sphalerite.
		SEM checks from 0.5-1.0 mm fraction: 7 GO versus almandine candidates = 1 GO (pyrope-
		almandine) and 6 almandine; and 6 FO versus apatite candidates = 5 FO and 1 andradite. SEM
		checks from 0.25-0.5 mm fraction: 6 GO versus almandine candidates = 1 GO (Cr-poor pyrope)
		and 5 almandine. 1 GO and sole IM from 0.5-1.0 mm fraction and 1 GP and 1 IM from 0.25-0.5
96TCA23	95	mm fraction have partial alteration mantles.

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp						>1.0 amp	
		% Cpy	Misc. Prime MMSiMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSiMs	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz											
A02	168	0	15% barite (~1000 gr)	0	20	1 pale grey	Tr Mn-epidote (1 gr) Tr low-Cr diopside (12 gr)	Tr (2 gr)	5	Tr	Tr	8	0	0	Tr	Tr	2	0	Almandine-goethite-hornblende/epidote-diopside-barite assemblage. 0.5-1.0 mm fraction contains 10% (~200 gr) barite.	1.0-2.0 mm fraction: 26 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 20 representative barite 1 spinel 1 Mn-epidote 12 low-Cr diopside 2 red rutile 1 chromite (picked as KIM)	Almandine-goethite-hornblende/epidote-diopside-barite	0.5-1.0 mm fraction contains 10% (~200 gr) barite.							
A03	68	0	0	Tr (1 gr)	10	0	Tr low-Cr diopside (1 gr)	0	2	Tr	Tr	4	0	0	Tr	Tr	1	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/epidote								
A04	35	0	5% barite (~200 gr)	0	8	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	Tr	Tr	Tr	Tr	0	0	0	Tr	Tr	5	0	Almandine-hornblende/epidote assemblage. 0.5-1.0 mm fraction contains 10% (~70 grains) barite.	1.0-2.0 mm fraction: 6 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 20 representative barite 1 low-Cr diopside 1 red rutile 3 chromite (picked as KIMs)	Almandine-hornblende/epidote	0.5-1.0 mm fraction contains 10% (~70 grains) barite.						
A05	38	0	2% barite (~100 gr)	0	5	0	Tr low-Cr diopside (4 gr)	0	Tr	Tr	Tr	3	0	0	Tr	Tr	2	Tr	Almandine-hornblende-hematite/epidote assemblage.	0.5-1.0 mm fraction: 13 barite 0.25-0.5 mm fraction: 20 representative barite 4 low-Cr diopside 1 chromite (counted as KIM; lost in transfer to vial)	Almandine-hornblende-hematite/epidote								
A06	209	0	Tr (barite (9 gr)	0	5	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	Tr	3	Tr	Tr	0	0	0	Tr	Tr	0	Almandine-hornblende/epidote assemblage.	1.0-2.0 mm fraction: 1 barite 0.5-1.0 mm fraction: 8 barite 0.25-0.5 mm fraction: 9 barite 1 low-Cr diopside 1 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote								
A07	255	0	Tr barite (3 gr)	Tr (3 gr)	8	1 green gahnite; 2 pale blue spinel	Tr low-Cr diopside (1 gr)	Tr (1 gr)	1	2	Tr	2	0	0	0	Tr	1	0	Almandine-hornblende/epidote-diopside assemblage. SEM checks from 0.5-1.0 mm fraction: 5 barite versus leucoxene candidates = 5 barite. SEM checks from 0.25-0.5 mm fraction: 4 barite candidates = 3 barite and 1 sillimanite; and 1 green gahnite versus spinel candidate = 1 gahnite.	1.0-2.0 mm fraction: 1 barite 0.5-1.0 mm fraction: 5 barite 0.25-0.5 mm fraction: 3 barite 1 sillimanite resembling barite 1 gahnite 2 spinel 1 low-Cr diopside 1 red rutile 1 chromite (picked as KIM; lost in transfer to vial)	Almandine-hornblende/epidote-diopside	SEM checks from 0.5-1.0 mm fraction: 5 barite versus leucoxene candidates = 5 barite. SEM checks from 0.25-0.5 mm fraction: 4 barite candidates = 3 barite and 1 sillimanite; and 1 green gahnite versus spinel candidate = 1 gahnite.							
A08	119	0	Tr barite (13 gr)	0.2 (~10 gr)	8	1 blue-green gahnite; 3 pale purple spinel	Tr low-Cr diopside (4 gr)	Tr (2 gr)	2	Tr	Tr	3	0	0	0	Tr	Tr	0	Almandine-hematite/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 gahnite; 3 pale purple spinel candidates = 3 spinel; and 1 PbSn-solder candidate = 1 Zn-Metal (contamination).	0.25-0.5 mm fraction: 13 barite 1 gahnite 3 spinel 4 low-Cr diopside 2 red rutile 5 chromite (picked as KIMs) 1 Zn-metal (contamination)	Almandine-hematite/epidote-diopside	SEM checks from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 gahnite; 3 pale purple spinel candidates = 3 spinel; and 1 PbSn-solder candidate = 1 Zn-Metal (contamination).							

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp						>1.0 amp	
		% Cpy	Misc. MMSIMs	Prime Py	Relate Gth	%	# Grains + Colour Spinel	Misc. MMSIMs	Prime diopside	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz									
A09	241	0	0	0	Tr	3 pale purple, pale blue	Tr low-Cr diopside (1 gr)	0	0	Tr	Tr	Tr	Tr	7	0	0	Tr	5	Tr	Almandine-hornblende-hematite/epidote assemblage.	Almandine-hornblende-hematite/epidote	3 spinel 1 low-Cr diopside 2 red rutile 1 chromite (picked as KIM)							
A10	133	0	0	Tr (3 gr)	15	1 blue-green gahnite; 1 blue-green spinel	0	0	Tr	Tr	Tr	Tr	25	0	0	Tr	2	0	Almandine-hematite-goethite/epidote-staurolite assemblage. SEM checks from 0.25-0.5 mm fraction: 2 blue-green gahnite versus spinel candidates = 1 gahnite and 1 spinel.	Almandine-hematite-goethite/epidote-staurolite	1 gahnite 1 spinel 3 chromite (picked as KIMs)	SEM checks from 0.25-0.5 mm fraction: 2 blue-green gahnite versus spinel candidates = 1 gahnite and 1 spinel.							
A11	5	0	0	0	10	1 green gahnite; 2 pale blue spinel	Tr low-Cr diopside (1 gr)	Tr (2 gr)	Tr	Tr	Tr	5	45	0	0	Tr	2	0	Almandine-hematite-ilmenite/staurolite-epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 1 earthy orange barite candidate = 1 florencite (CeAl3(P04)2(OH)6); 1 green gahnite versus spinel candidate = 1 gahnite; and 2 pale blue gahnite versus spinel candidates = 2 spinel	Almandine-hematite-ilmenite/staurolite-epidote	1 florencite 1 resembling barite 1 gahnite 2 spinel 1 low-Cr diopside 2 red rutile 5 chromite (picked as KIMs)	SEM checks from 0.25-0.5 mm fraction: 1 earthy orange barite candidate = 1 florencite (CeAl3(P04)2(OH)6); 1 green gahnite versus spinel candidate = 1 gahnite; and 2 pale blue gahnite versus spinel candidates = 2 spinel.							
A12	126	0	0	0	10	1 pale blue-green	0	0	1	0	Tr	5	0	0	0	0	1	0	Almandine-hornblende-ilmenite/epidote-titanite assemblage.	Almandine-hornblende-ilmenite/epidote-titanite	1 spinel								
A13	137	0	0	0	99	0	0	0	0	0	0	0	0	0	0	0	0	0	Goethite/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 10 barite versus zoisite candidates = 1 zoisite, 1 diopside and 8 quartz. Goethite dominates all fractions.	Goethite/epidote	1 zoisite resembling barite 1 diopside resembling barite 8 quartz resembling barite	SEM checks from 0.25-0.5 mm fraction: 10 barite versus zoisite candidates = 1 zoisite, 1 diopside and 8 quartz. Goethite dominates all fractions.							
B02	118	0	0	0	5	4 pale blue	0	Tr (1 gr)	3	Tr	Tr	3	0	0	0	Tr	1	0	Almandine-hornblende-ilmenite/epidote assemblage.	Almandine-hornblende-ilmenite/epidote	1 pale blue spinel								
B03	82	0	2% barite (~150 gr)	0	15	1 pale purple	Tr Mn-epidote (2 gr) Tr low-Cr diopside (4 gr)	Tr (3 gr)	2	2	Tr	15	0	0	0	Tr	3	Tr	Almandine-hornblende-goethite/epidote-staurolite assemblage.	Almandine-hornblende-goethite/epidote-staurolite	24 barite 20 representative barite 1 spinel 2 Mn-epidote 4 low-Cr diopside 3 red rutile 1 chromite (picked as KIMs)								
B04	91	0	3% barite (~200 gr)	0	5	0	Tr sapphire corundum (1 gr) Tr low-Cr diopside (4 gr)	Tr (1 gr)	1	Tr	Tr	4	0	0	Tr	Tr	4	0	Almandine-hornblende-hematite/epidote assemblage. 0.5-1.0 mm fraction contains 8% (~80 gr) barite.	Almandine-hornblende-hematite/epidote	7 barite 20 representative barite 1 low-Cr diopside 0.25-0.5 mm fraction: 20 representative barite 1 sapphire corundum 4 low-Cr diopside 1 red rutile 3 chromite (picked as KIMs)	0.5-1.0 mm fraction contains 8% (~80 gr) barite.							
B05	240	0	0	0	3	1 green gahnite; 1 green spinel	Tr low-Cr diopside (3 gr)	Tr (1 gr)	1	1	Tr	2	0	0	0	Tr	3	0	Almandine-hornblende-hematite/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 1 gahnite and 1 spinel.	Almandine-hornblende-hematite/epidote-diopside	1 chromite (see KIM data; diopside picked as KIM) 1 gahnite 1 spinel 3 low-Cr diopside 1 red rutile 1 chromite (picked as KIM)	SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 1 gahnite and 1 spinel.							
B06	153	0	0	0	1	1 pale blue	Tr low-Cr diopside (3 gr)	Tr (2 gr)	3	1	Tr	5	0	0	Tr	Tr	Tr	0	Almandine-hornblende/epidote-diopside assemblage.	Almandine-hornblende/epidote-diopside	1 spinel 3 low-Cr diopside 2 red rutile 2 chromite (picked as KIMs)								

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm														Mg/Mn/Al/Cr Minerals 0.25-0.5 mm				Phosphates		INPUT Assemblage	INPUT Remarks
		>1 amp				<1.0 amp				>1.0 amp				0.8-1.0 amp		<0.8 amp		>1.0 amp					
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	Ap	Mz					
B07	233	0	0	0	Tr	1 purple	Tr low-Cr diopside (2 gr)	Tr (1 gr)	2	2	Tr	4	0	0	Tr	0	15	Tr	Almandine-hornblende/epidote-diopside assemblage.	Picked Grains 0.25-0.5 mm fraction: 1 spinel 2 low-Cr diopside 1 red rutile	Almandine-hornblende/epidote-diopside		
B08	245	0	0	0	Tr	1 pale purple	Tr low-Cr diopside (3 gr)	Tr (2 gr)	Tr	Tr	Tr	5	0	0	Tr	Tr (3 gr; see KIM data)	Tr	Tr	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 spinel 3 low-Cr diopside 2 red rutile 3 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside		
B09	98	0	0	0	15	0	Tr low-Cr diopside (5 gr)	0	2	Tr	Tr	3	0	0	Tr	Tr (1 gr; see KIM data)	1	0	Almandine-hornblende-goethite/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 2 glassy blue tourmaline candidates = 1 chromite (picked as KIM) 2 SiO2 (silica glass contamination).	0.25-0.5 mm fraction: 5 low-Cr diopside 1 chromite (picked as KIM) 4 silica glass (contamination; see KIM notes)	Almandine-hornblende-goethite/epidote	SEM checks from 0.25-0.5 mm fraction: 2 glassy blue tourmaline candidates = 2 SiO2 (silica glass contamination).	
B10	11	0	0	0	8	4 pale blue, grey	0	Tr (4 gr)	Tr	Tr	Tr	8	0	0	0	Tr (2 gr; see KIM data)	1	Tr	Almandine-hematite/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 1 grey fluorite versus spinel candidates = 1 spinel; and 2 Mn-epidote versus monazite candidates = 2 monazite.	0.25-0.5 mm fraction: 4 spinel 2 monazite resembling Mn-epidote 4 red rutile 4 chromite (picked as KIMs)	Almandine-hematite/epidote	SEM checks from 0.25-0.5 mm fraction: 1 grey fluorite versus spinel candidates = 1 spinel; and 2 Mn-epidote versus monazite candidates = 2 monazite.	
B11	56	0	0	Tr (2 gr)	10	1 pale blue	0	Tr (4 gr)	1	Tr	3	15	0	0	0	Tr (2 gr; see KIM data)	8	0	Almandine-hematite-hornblende/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 spinel 4 red rutile 2 chromite (picked as KIMs)	Almandine-hematite-hornblende/epidote staurolite		
B12	173	0.5 (1 gr)	0	0.5 (1 gr)	80	0	0	0.5 (1 gr)	10	0	0	25	0	0	0	Tr (1 gr; see KIM data)	5	0	Goethite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 chalcocopyrite 1 red rutile 1 chromite (picked as KIM)	Goethite/epidote-staurolite		
C02	189	0	0	Tr (2 gr)	3	4 pale purple, pale blue, pale blue-green	Tr topaz (3 gr)	0	2	Tr	Tr	2	0	0	0	Tr (1 gr; see KIM data)	2	Tr	Almandine-hematite-hornblende/epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 2 barite candidates = 1 barite and 1 xenotime (YPO4). SEM checks from 0.25-0.5 mm fraction: 3 topaz candidates = 3 topaz.	0.5-1.0 mm fraction: 1 barite 1 xenotime resembling barite 0.25-0.5 mm fraction: 4 spinel 3 topaz 1 chromite (picked as KIM)	Almandine-hematite-hornblende/epidote	SEM checks from 0.5-1.0 mm fraction: 2 barite candidates = 1 barite and 1 xenotime (YPO4). SEM checks from 0.25-0.5 mm fraction: 3 topaz candidates = 3 topaz.	
C03	51	0	0	0	10	0	Tr low-Cr diopside (2 gr)	Tr (2 gr)	0.5	Tr	Tr	2	0	0	0	Tr (1 gr; see KIM data)	2	Tr	Almandine-hornblende-hematite/epidote assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 2 low-Cr diopside 2 red rutile 1 chromite (picked as KIM)	Almandine-hornblende-hematite/epidote		
C04	6	0	Tr barite (8 gr)	Tr (3 gr)	5	1 blue grey	Tr low-Cr diopside (7 gr)	0	Tr	Tr	0.5	1	0	0	0	Tr (1 gr; see KIM data)	5	0	Almandine-hornblende/epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 2 barite versus zoisite candidates = 2 barite.	1.0-2.0 mm fraction: 3 barite 0.5-1.0 mm fraction: 4 barite 0.25-0.5 mm fraction: 8 barite 1 spinel 7 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende/epidote	SEM checks from 0.5-1.0 mm fraction: 2 barite versus zoisite candidates = 2 barite.	
C05a	93	0	2% barite (~150 gr)	Tr (10 gr)	5	0	Tr Mn-epidote (1 gr) Tr sapphire corundum (1 gr) Tr low-Cr diopside (8 gr)	Tr (1 gr)	1	Tr	Tr	5	0	0	0	Tr (2 gr; see KIM data)	3	0	Almandine-hornblende/epidote assemblage. 0.5-1.0 mm fraction contains 5% (~40 gr) barite.	1.0-2.0 mm fraction: 2 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 20 representative barite 1 Mn-epidote 1 sapphire corundum 8 low-Cr diopside 1 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende/epidote	0.5-1.0 mm fraction contains 5% (~40 gr) barite.	

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm														Mg/Mn/Al/Cr Minerals 0.25-0.5 mm				Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		>1 amp				<1.0 amp				>1.0 amp				0.8-1.0 amp		<0.8 amp		>1.0 amp							
		% Cpy	Misc. Prime MMSiMs	Py	Gth	%	# Grains + Colour Spinel	Misc. Prime MMSiMs	% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	Ap	Mz						
C05b	46	0	5% barite (~300 gr)	Tr (8 gr)	3	1 blue-green	0	0	Tr	Tr	Tr	1	0	0	1	Tr (3 gr; see KIM data)	6	Tr	Hornblende-almandine/epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 5 earthy barite versus epidote candidates = 5 barite. SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.	0.5-1.0 mm fraction: 5 barite 1 low-Cr diopside 0.25-0.5 mm fraction: 20 representative barite 1 spinel 3 chromite (picked as KIMs)	Hornblende-almandine/epidote	SEM checks from 0.5-1.0 mm fraction: 5 earthy barite versus epidote candidates = 5 barite. SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.			
C06	237	0	0	Tr (5 gr)	10	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	Tr	2	Tr	3	0	0	Tr	Tr (2 gr; see KIM data)	2	Tr	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende/epidote				
C07	145	0	2% barite (~60 gr)	0	15	1 blue-grey	Tr ruby corundum (1 gr) Tr low-Cr diopside (11 gr)	Tr (4 gr)	8	Tr	Tr	10	0	0	Tr	Tr (1 gr; see KIM data)	3	0	Almandine-hornblende-goethite/epidote assemblage.	1.0-2.0 mm fraction: 6 barite 0.5-1.0 mm fraction: 38 barite 0.25-0.5 mm fraction: 20 representative barite 1 spinel 1 ruby corundum 11 low-Cr diopside 4 red rutile 1 chromite (picked as KIM)	Almandine-hornblende-goethite/epidote				
C08	136	0	0	0	5	1 pale blue-green	Tr low-Cr diopside (6 gr)	Tr (6 gr)	2	Tr	Tr	3	0	0	0	Tr (1 gr; see KIM data)	1	Tr	Almandine-hornblende-augite/epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 pale blue-green gahnite versus spinel candidate = 1 spinel.	0.25-0.5 mm fraction: 1 spinel 6 low-Cr diopside 6 red rutile 1 chromite (picked as KIM)	Almandine-hornblende-augite/epidote	SEM check from 0.25-0.5 mm fraction: 1 pale blue-green gahnite versus spinel candidate = 1 spinel.			
C09	131	0	0	85	1	0	0	0	Tr	0	Tr	3	0	0	0	0	Tr	0	Siderite-almandine/pyrite assemblage. "Pyrite" is mainly marcasite.		Siderite-almandine/pyrite	"Pyrite" is mainly marcasite.			
C10	210	0	0	0	8	2 green gahnite; 7 pale blue-green, pale blue, colourless spinel	0	Tr (9 gr)	Tr	2	Tr	7	0	0	0	Tr (10 gr; see KIM data)	Tr	Tr	Almandine-hematite-hornblende/epidote assemblage. SEM check from 0.5-1.0 mm fraction: 1 metal candidate = 1 Pb-metal (contamination). SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 2 gahnite; and 1 colourless spinel versus topaz candidate = 1 spinel.	0.5-1.0 mm fraction: 1 Pb-metal (contamination) 0.25-0.5 mm fraction: 2 gahnite 7 spinel 9 red rutile 10 chromite (picked as KIMs)	Almandine-hematite-hornblende/epidote	SEM check from 0.5-1.0 mm fraction: 1 metal candidate = 1 Pb-metal (contamination). SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 2 gahnite; and 1 colourless spinel versus topaz candidate = 1 spinel.			
C11	169	0	0	Tr (1 gr)	5	0	Tr Mn-epidote (1 gr) Tr corundum (1 gr)	Tr (3 gr)	4	Tr	Tr	25	0	0	Tr	Tr (5 gr; see KIM data)	2	0	Almandine-ilmenite-hornblende/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 Mn-epidote 1 corundum (see KIM notes) 3 red rutile 1 enstatite (see KIM notes) 5 chromite (picked as KIMs)	Almandine-ilmenite-hornblende/epidote-staurolite				
C12	166	0	0	0	Tr	0	Tr low-Cr diopside (1 gr)	Tr (2 gr)	3	Tr	Tr	15	0	0	0	Tr (3 gr; see KIM data)	3	Tr	Almandine-hornblende/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 2 red rutile 3 chromite (picked as KIMs)	Almandine-hornblende/epidote-staurolite				
D02	143	0	15% barite (~700 gr)	0	15	0	Tr low-Cr diopside (2 gr)	0	Tr	0	Tr	0	0	0	0	Tr (1 gr; see KIM data)	Tr	Tr	Almandine-hornblende-hematite-goethite/epidote-barite assemblage. 0.5-1.0 mm fraction contains 7% (~70 gr) barite.	1.0-2.0 mm fraction: 14 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 20 representative barite 2 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende-hematite-goethite/epidote-barite	0.5-1.0 mm fraction contains 7% (~70 gr) barite.			
D03	149	0	0	0	1	0	Tr low-Cr diopside (3 gr)	0	2	0	Tr	5	Tr	0	0	0	2	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside	Almandine-hornblende/epidote				

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp						>1.0 amp	
		% Cpy	Misc. MMSiMs	Prime Py	% Tr	% Gth	# Grains + Colour	Spinel	Misc. MMSiMs	Prime	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz								
D04	9	0	0	0	Tr	2	0	Tr low-Cr diopside (7 gr)	0	0	Tr	Tr	2	0	0	0	0	Tr	4	0	Almandine-hornblende/epidote assemblage.	0.5-1.0 mm fraction: 2 chromite (see KIM data; picked as KIMs) 0.25-0.5 mm fraction: 7 low-Cr diopside 5 chromite (picked as KIMs)	Almandine-hornblende/epidote						
D05	106	0	3% barite (~800 gr)	90 (~20,000 gr)	Tr	0	Tr low-Cr diopside (9 gr)	0	0	1	0	Tr	0	0	0	0	0	Tr	0	0	Almandine-hematite/pyrite assemblage. "Pyrite" is mainly marcasite. 0.5-1.0 mm fraction contains 10% (~40 gr) barite.	1.0-2.0 mm fraction: 2 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 20 representative barite 9 low-Cr diopside	Almandine-hematite/pyrite	"Pyrite" is mainly marcasite. 0.5-1.0 mm fraction contains 10% (~40 gr) barite.					
D06	3	Tr (1 gr)	0	40 (~6000 gr)	5	0	Tr low-Cr diopside (2 gr)	Tr (1 gr)	Tr	Tr	0.5	0.5	0	0	0	0	Tr (1 gr; see KIM data)	Tr	0	0	Siderite-almandine/pyrite-epidote assemblage. "Pyrite" is mostly marcasite.	0.5-1.0 mm fraction: 1 spessartine (see KIM notes) 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 1 chalcopyrite 2 low-Cr diopside 1 red rutile 1 chromite (picked as KIM)	Siderite-almandine/pyrite-epidote	"Pyrite" is mostly marcasite.					
D07	14	0	0	0	10	0	Tr low-Cr diopside (6 gr)	0	2	1	0.5	4	0	0	0	0	0	4	0	0	Almandine-hornblende/epidote assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 6 low-Cr diopside	Almandine-hornblende/epidote						
D08	230	0	Tr barite (~30 gr)	75 (~15,000 gr)	5	1 green gahnite	Tr low-Cr diopside (3 gr)	0	Tr	Tr	Tr	2	0	0	0	0	0	Tr	0	0	Siderite-almandine-hornblende/pyrite assemblage. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite. "Pyrite" is mainly marcasite.	1.0-2.0 mm fraction: 1 barite 0.5-1.0 mm fraction: 7 barite 0.25-0.5 mm fraction: 10 representative barite 1 gahnite 3 low-Cr diopside	Siderite-almandine-hornblende/pyrite	SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite. "Pyrite" is mainly marcasite.					
D09	139	0	0	0	15	0	Tr low-Cr diopside (1 gr)	0	3	0	Tr	0	0	0	1	Tr (1 gr; see KIM data)	Tr	Tr	Tr	Tr	Almandine-hornblende-goethite/epidote-diopside-titanite assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende-goethite/epidote-diopside-titanite						
D10	127	0	0	90 (~18,000 gr)	Tr	0	Tr low-Cr diopside (1 gr)	0	0	0	Tr	1	0	0	0	0	0	Tr	0	0	Siderite-almandine/pyrite assemblage. "Pyrite" is mainly marcasite and marcasite-cemented sandstone.	0.25-0.5 mm fraction: 1 low-Cr diopside	Siderite-almandine/pyrite	"Pyrite" is mainly marcasite and marcasite-cemented sandstone.					
D11	39	0	0	0.5 (~50 gr)	8	0	Tr Mn-epidote (1 gr)	Tr (1 gr)	Tr	Tr	Tr	10	0	0	0	Tr	Tr (3 gr; see KIM data)	4	Tr	Tr	Ilmenite-almandine/epidote assemblage.	0.25-0.5 mm fraction: 1 Mn-epidote 1 red rutile 3 chromite (picked as KIMs)	Ilmenite-almandine/epidote						
D12	225	0	0	0	15	2 pale blue-green, pale purple	0	Tr (1 gr)	2	Tr	Tr	15	0	0	0	0	Tr (2 gr; see KIM data)	2	0	0	Almandine-hematite-goethite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 2 spinel 1 red rutile 2 chromite (picked as KIMs)	Almandine-hematite-goethite/epidote-staurolite						
E02	92	0	0	0	3	0	Tr low-Cr diopside (1 gr)	0	2	Tr	Tr	2	0	0	0	Tr	Tr (2 gr; see KIM data)	4	0	0	Almandine-hornblende/epidote-titanite assemblage. SEM check from 0.5-1.0 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.	0.5-1.0 mm fraction: 1 spinel 0.25-0.5 mm fraction: 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-titanite	SEM check from 0.5-1.0 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.					
E03	190	0	0.5% barite (18 gr)	0	10	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (1 gr)	0	5	Tr	Tr	5	0	0	2	0	0	5	0	0	Almandine-hornblende/epidote-titanite assemblage.	1.0-2.0 mm fraction: 3 barite 0.5-1.0 mm fraction: 9 barite 0.25-0.5 mm fraction: 18 barite 1 Mn-epidote 1 low-Cr diopside	Almandine-hornblende/epidote-titanite						

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm											Mg/Mn/Al/Cr Minerals 0.25-0.5 mm								Phosphates		INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp						>1.0 amp				0.8-1.0 amp				<0.8 amp				>1.0 amp	
		% Cpy	Misc. MMSIMs	Prime Py	Relatec	% Gth	# Grains + Colour Spinel	Misc. MMSIMs	Prime Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz	% Cr	% Ap	% Mz				
E04	186	0	5% barite (~600 gr)	0	Tr	5	2 pale blue	Tr low-Cr diopside (7 gr)	0	2	Tr	Tr	3	0	0	0	Tr	5	0	Almandine-hematite-hornblende/epidote assemblage.	Picked Grains 1.0-2.0 mm fraction: 2 barite 0.5-1.0 mm fraction: 46 barite 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 20 representative barite 2 spinel 7 low-Cr diopside 5 chromite (picked as KIMs)	Almandine-hematite-hornblende/epidote				
E05	61	0	0	Tr (3 gr)	5	1 pale blue	Tr low-Cr diopside (1 gr)	Tr (1 gr)	Tr	0	Tr	3	0	0	0	Tr (3 gr; see KIM data)	Tr	Tr	Almandine-hematite-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 spinel 1 low-Cr diopside 1 red rutile 3 chromite (picked as KIMs)	Almandine-hematite-hornblende/epidote diopside					
E06	12	0	Tr barite (7 gr)	Tr (10 gr)	8	1 grey	Tr low-Cr diopside (10 gr)	Tr (3 gr)	1	Tr	0.5	3	0	0	1	Tr (1 gr; see KIM data)	2	0	Almandine-hornblende/epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 5 barite versus apatite candidates = 5 barite.	0.5-1.0 mm fraction: 5 barite 0.25-0.5 mm fraction: 7 barite 1 spinel 10 low-Cr-diopside 3 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote	SEM checks from 0.5-1.0 mm fraction: 5 barite versus apatite candidates = 5 barite.				
E07	195	Tr (1 gr)	Tr barite (1 gr)	85 (~18,000 gr)	Tr	0	Tr low-Cr diopside (7 gr)	0	Tr	Tr	Tr	0	0	0	0	Tr	0	0	Siderite-almandine/pyrite assemblage. SEM check from 0.5-1.0 mm fraction: 1 barite candidate = 1 barite. SEM check from 0.25-0.5 mm fraction: 1 barite candidate = 1 barite. "Pyrite" is mainly marcasite.	0.5-1.0 mm fraction: 1 barite 0.25-0.5 mm fraction: 1 chalcopyrite 1 barite 7 low-Cr diopside	Siderite-almandine/pyrite	SEM check from 0.5-1.0 mm fraction: 1 barite candidate = 1 barite. SEM check from 0.25-0.5 mm fraction: 1 barite candidate = 1 barite. "Pyrite" is mainly marcasite.				
E08	113	0.1 (2 gr)	1% barite (~20 gr)	0.5 (~10 gr)	3	1 pale purple	0	0	2	1	Tr	2	0	0	0	Tr (1 gr; see KIM data)	Tr	0	Almandine-hematite-hornblende/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 8 barite versus zoisite candidates = 7 barite and 1 kyanite.	0.5-1.0 mm fraction: 7 barite 0.25-0.5 mm fraction: 2 chalcopyrite 20 representative barite 1 kyanite resembling barite 1 spinel 1 chromite (picked as KIM)	Almandine-hematite-hornblende/epidote	SEM checks from 0.25-0.5 mm fraction: 8 barite versus zoisite candidates = 7 barite and 1 kyanite.				
E09	181	Tr (1 gr)	0	Tr (~25 gr)	Tr	1 green gahnite	Tr sapphire (1 gr) Tr low-Cr diopside (5 gr)	0	2	0.5	Tr	4	0	0	Tr (1 gr; see KIM data)	Tr	0	0	Almandine-hematite-hornblende/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite; and 1 blue-green gahnite versus sapphire candidate = 1 sapphire.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 1 chalcopyrite 1 gahnite 1 sapphire 5 low-Cr diopside 1 chromite (picked as KIMs)	Almandine-hematite-hornblende/epidote diopside	SEM checks from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite; and 1 blue-green gahnite versus sapphire candidate = 1 sapphire.				
E10	101	0	0	0	12	0	0	Tr (2 gr)	2	Tr	Tr	35	0	0	0	Tr (1 gr; see KIM data)	2	0	Almandine-hornblende/epidote-staurolite assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 2 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote-staurolite					
E11	167	0	0	0	30	1 pale blue	0	Tr (4 gr)	2	Tr	Tr	20	0	0	0	2	Tr	Almandine-goethite-hematite-ilmenite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 spinel 4 red rutile	Almandine-goethite-hematite-ilmenite/epidote-staurolite						
F02	185	0	0	0	2	2 pale grey, blue-grey	Tr Mn-epidote (1 gr) Tr topaz (9 gr) Tr low-Cr diopside (12 gr)	0	2	Tr	Tr	3	0	0	Tr (5 gr; see KIM data)	2	0	0	Almandine-hornblende/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 3 topaz versus zoisite candidates = 3 topaz.	1.0-2.0 mm fraction: 1 low-Cr diopside 0.5-1.0 mm fraction: 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 2 spinel 1 Mn-epidote 9 topaz 10 low-Cr diopside 5 chromite (picked as KIMs)	Almandine-hornblende/epidote	SEM checks from 0.25-0.5 mm fraction: 3 topaz versus zoisite candidates = 3 topaz.				

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm														Mg/Mn/Al/Cr Minerals 0.25-0.5 mm						Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		>1 amp				<1.0 amp		>1.0 amp		0.8-1.0 amp		<0.8 amp		>1.0 amp													
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz									
F03	198	0	0	Tr (~15 gr)	8	1 pale blue	Tr low-Cr diopside (2 gr)	Tr (1 gr)	Tr	Tr	Tr	1	0	0	0	Tr	Tr	Almandine-hornblende-hematite/epidote-diopside assemblage.	3 gr; see KIM data	Almandine-hornblende-hematite/epidote-diopside	0.25-0.5 mm fraction: 1 spinel 2 low-Cr diopside 1 red rutile 3 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote diopside					
F04	211	0	4% barite (~800 gr)	70 (~10,000 gr)	40	0	0	0	Tr	Tr	Tr	1	0	0	0	Tr	0	Goethite-hornblende/pyrite assemblage. "Pyrite" is mainly marcasite. 0.5-1.0 mm fraction contains 1% (~20 gr) barite.	2 gr; see KIM data	Goethite-hornblende/pyrite	1.0-2.0 mm fraction: 7 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 20 representative barite 2 chromite (picked as KIMs)	Goethite-hornblende/pyrite	"Pyrite" is mainly marcasite. 0.5-1.0 mm fraction contains 1% (~20 gr) barite.				
F05	142	0	5% barite (~200 gr)	Tr (~15 gr)	5	1 pale blue-green	Tr low-Cr diopside (2 gr)	0	2	0	Tr	2	0	0	Tr	0	Tr	Almandine-hornblende-hematite/epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 10 earthy brown to white barite candidates = 10 barite. SEM check from 0.25-0.5 mm fraction: 1 pale blue-green gahnite versus spinel candidate = 1 spinel.	0	Tr	Almandine-hornblende-hematite/epidote SEM checks from 0.5-1.0 mm fraction: 5 barite 0.5-1.0 mm fraction: 10 earthy brown to white barite candidates = 10 barite. SEM check from 0.25-0.5 mm fraction: 57 barite 0.25-0.5 mm fraction: 50 representative barite 1 spinel 2 low-Cr diopside	Almandine-hornblende-hematite/epidote	SEM checks from 0.5-1.0 mm fraction: 10 earthy brown to white barite candidates = 10 barite. SEM check from 0.25-0.5 mm fraction: 1 pale blue-green gahnite versus spinel candidate = 1 spinel.				
F06	57	Tr (1 gr)	Tr barite (10 gr)	80 (~15,000 gr)	0	1 pale blue	Tr low-Cr diopside (2 gr)	0	Tr	0	0	0	0	0	Tr	0	Tr	Siderite-almandine/marcasite assemblage. SEM checks from 0.5-1.0 mm fraction: 4 barite candidates = 4 barite; and 2 galena versus Pb-metal candidates = 2 Pb-metal (contamination). SEM checks from 0.25-0.5 mm fraction: 2 barite candidates = 1 barite and 1 kyanite. "Pyrite" is mainly marcasite.	0	Tr	0	Siderite-almandine/marcasite	0.5-1.0 mm fraction: 4 barite 4 Pb-metal (contamination) 0.25-0.5 mm fraction: 1 chalcocopyrite 10 barite 1 spinel 1 kyanite resembling barite 2 low-Cr diopside 1 Pb-metal (contamination)	Siderite-almandine/marcasite	SEM checks from 0.5-1.0 mm fraction: 4 barite candidates = 4 barite; and 2 galena versus Pb-metal candidates = 2 Pb-metal (contamination). SEM checks from 0.25-0.5 mm fraction: 2 barite candidates = 1 barite and 1 kyanite. "Pyrite" is mainly marcasite.		
F07	64	0	0	0	0	0	Tr low-Cr diopside (3 gr)	0	Tr	Tr	Tr	5	0	0	0	Tr	0	Almandine-hornblende/epidote assemblage.	1 gr; see KIM data	Almandine-hornblende/epidote	0.25-0.5 mm fraction: 3 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende/epidote					
F08A	269	0	0	0	5	1 pale blue	Tr low-Cr diopside (4 gr)	Tr (4 gr)	Tr	1	Tr	2	0	0	Tr	Tr	Tr	Almandine-hornblende-hematite/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 2 barite versus sillimanite candidates = 1 sillimanite and 1 zoisite.	1 gr; see KIM data	Almandine-hornblende-hematite/epidote diopside	0.5-1.0 mm fraction: 1 chalcocopyrite 2 barite 0.25-0.5 mm fraction: 1 sillimanite resembling barite 1 zoisite resembling barite 1 spinel 4 low-Cr diopside 4 red rutile 1 chromite (picked as KIM)	Almandine-hornblende-hematite/epidote diopside	SEM checks from 0.25-0.5 mm fraction: 2 barite versus sillimanite candidates = 1 sillimanite and 1 zoisite.				
F08B	264	0	Tr barite (6 gr)	60 (~12,000 gr)	Tr	1 green gahnite; 1 pale blue spinel	Tr low-Cr diopside (4 gr)	0	Tr	Tr	Tr	1	0	0	4	Tr	0	Siderite-almandine-hornblende-ilmenite/ pyrite-epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite. "Pyrite" is mainly marcasite.	1 gr; see KIM data	Siderite-almandine-hornblende-ilmenite/ pyrite-epidote	1.0-2.0 mm fraction: 2 barite 0.5-1.0 mm fraction: 1 chalcocopyrite 9 barite 0.25-0.5 mm fraction: 6 barite 1 gahnite 1 spinel 4 low-Cr diopside 1 chromite (picked as KIM)	Siderite-almandine-hornblende-ilmenite/ pyrite-epidote	SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite. "Pyrite" is mainly marcasite.				
F09	229	0	0	0	30	2 pale green, pale blue	0	0	Tr	3	Tr	5	0	0	0	Tr	10	Almandine-goethite-hematite/epidote assemblage.	6 gr; see KIM data	Almandine-goethite-hematite/epidote	0.5-1.0 mm fraction: 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 2 spinel 6 chromite (picked as KIMs)	Almandine-goethite-hematite/epidote					
F10	158	0	0	0	15	0	0	0	Tr	Tr	Tr	20	0	0	0	Tr	0	Almandine-hornblende-goethite/epidote-staurolite assemblage.	0	Almandine-hornblende-goethite/epidote-staurolite		Almandine-hornblende-goethite/epidote-staurolite					

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm														Mg/Mn/Al/Cr Minerals 0.25-0.5 mm				Phosphates				Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		>1 amp				<1.0 amp				>1.0 amp						>1.0 amp		>1.0 amp									
		% Cpy	Misc. Prime MMSiMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSiMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz									
G02	125	0	0	0	5	1 pale blue	Tr low-Cr diopside (4 gr)	Tr (1 gr)	2	Tr	0	3	0	0	0	0	0	Tr	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 1 spinel 4 low-Cr diopside 1 red rutile	Almandine-hornblende/epidote					
G03	94	0	0.5% barite (~40 gr)	0.5 (~50 gr)	8	0	Tr low-Cr diopside (5 gr)	0	Tr	Tr	Tr	2	0	0	0	0	Tr (5 gr; see KIM data)	3	0	Almandine-hornblende/epidote assemblage.	0.5-1.0 mm fraction: 4 barite 0.25-0.5 mm fraction: 20 representative barite 5 low-Cr diopside 5 chromite (picked as KIMs)	Almandine-hornblende/epidote					
G04	163	0	5% barite (~500 gr)	Tr (10 gr)	3	1 pale purple	Tr chondrodite (2 gr) Tr low-Cr diopside (4 gr)	Tr (2 gr)	1	0	Tr	3	0	0	Tr	Tr (2 gr; see KIM data)	Tr	0	Almandine-hornblende/epidote assemblage. 0.5-1.0 mm fraction contains 4% (~50 gr) barite.	1.0-2.0 mm fraction: 3 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 40 representative barite 1 spinel 2 chondrodite 4 low-Cr diopside 2 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende/epidote	0.5-1.0 mm fraction contains 4% (~50 gr) barite.					
G05	236	0	35% barite (~2000 gr)	Tr (8 gr)	Tr	0	Tr low-Cr diopside (4 gr)	0	Tr	Tr	0	Tr	0	0	Tr	0	Tr	0	0	Almandine-hornblende/epidote-barite assemblage. SEM checks from 0.5-1.0 mm fraction: 3 barite candidates = 3 barite. 0.5-1.0 mm fraction contains 20% (~60 grains) barite.	0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 20 representative barite 4 low-Cr diopside	Almandine-hornblende/epidote-barite	SEM checks from 0.5-1.0 mm fraction: 3 barite candidates = 3 barite. 0.5-1.0 mm fraction contains 20% (~60 grains) barite.				
G06	90	0	0	0	2	0	0	0	Tr	Tr	0	5	0	0	0	0	8	Tr	Almandine-hornblende/epidote-diopside assemblage.		Almandine-hornblende/epidote-diopside						
G07	174	0	0	0	4	1 pale purple	Tr low-Cr diopside (7 gr)	0	2	Tr	0	3	0	0	0	Tr (4 gr; see KIM data)	Tr	Tr	Almandine-hornblende/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue sapphire corundum candidate = 1 andalusite.	0.5-1.0 mm fraction: 1 chromite (see KIM data; =picked as KIM) 0.25-0.5 mm fraction: 1 spinel 1 andalusite resembling sapphire corundum 7 low-Cr diopside 4 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	SEM check from 0.25-0.5 mm fraction: 1 blue sapphire corundum candidate = 1 andalusite.					
G08	193	0	0	0	5	0	Tr corundum (1 gr) Tr low-Cr diopside (1 gr)	0	0.5	0	Tr	3	0	0	0	Tr (3 gr; see KIM data)	1	Tr	Almandine-hornblende-hematite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 corundum (see KIM notes) 1 low-Cr diopside 3 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote diopside						
G09	232	0	0	0	3	1 pale blue	Tr Mn-epidote (1 gr) Tr low-Cr diopside (6 gr)	Tr (5 gr)	Tr	1	Tr	3	0	Tr	Tr	Tr (5 gr; see KIM data)	3	Tr	Almandine-augite-hornblende-hematite/epidote assemblage.	0.25-0.5 mm fraction: 1 spinel 1 Mn-epidote 6 low-Cr diopside 5 red rutile 5 chromite (picked as KIMs)	Almandine-augite-hornblende-hematite/epidote						
G10	22	0	0	0	2	1 blue-grey gahnite	Tr low-Cr diopside (2 gr)	Tr (2 gr)	2	0	Tr	20	0	7	Tr	0	5	Tr	Augite-ilmenite/epidote-staurolite assemblage. SEM checks from 0.25-0.5 mm fraction: 1 granular blue-grey sapphirine versus spinel candidate = 1 gahnite.	0.5-1.0 mm fraction: 1 Mn-epidote 0.25-0.5 mm fraction: 1 gahnite 2 low-Cr diopside 2 red rutile 15 representative forsterite (see KIM data; picked as KIMs)	Augite-ilmenite/epidote-staurolite	SEM checks from 0.25-0.5 mm fraction: 1 granular blue-grey sapphirine versus spinel candidate = 1 gahnite.					
H02	222	0	25% barite (~1000 gr)	Tr (~15 gr)	30	2 blue-grey, pale blue	Tr low-Cr diopside (5 gr)	0	Tr	0	0	0	0	0	0	Tr (3 gr; see KIM data)	Tr	0	Almandine-goethite-hornblende/epidote-barite assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue-grey gahnite versus spinel candidate = 1 spinel. 0.5-1.0 mm fraction contains 4% (~40 gr) barite.	1.0-2.0 mm fraction: 4 barite 0.5-1.0 mm fraction: 20 representative barite 1 low-Cr diopside 0.25-0.5 mm fraction: 20 representative barite 2 spinel 5 low-Cr diopside 3 chromite (picked as KIMs)	Almandine-goethite-hornblende/epidote-barite	SEM check from 0.25-0.5 mm fraction: 1 blue-grey gahnite versus spinel candidate = 1 spinel. 0.5-1.0 mm fraction contains 4% (~40 gr) barite.					

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm					Mg/Mn/Al/Cr Minerals 0.25-0.5 mm											Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		>1 amp			<1.0 amp		>1.0 amp			0.8-1.0 amp				<0.8 amp				>1.0 amp					
		% Cpy	Misc. Prime MMSiMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSiMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz					
H03	179	0	0	0	Tr	0	Tr low-Cr diopside (8 gr)	0	2	Tr	0	4	0	0	5	Tr	0	0	Almandine-hornblende/epidote-diopside assemblage.	3 gr; see KIM data	0.25-0.5 mm fraction: 8 low-Cr diopside 3 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	
H04	105	0	Tr barite (8 gr)	0	5	0	Tr low-Cr diopside (4 gr)	0	Tr	Tr	Tr	2	0	0	Tr	Tr	2	0	Almandine-hornblende/epidote-diopside assemblage.	(1 gr; see KIM data)	1.0-2.0 mm fraction: 1 barite 0.5-1.0 mm fraction: 12 barite 2 chromite (see KIM data; picked as KIMs) 0.25-0.5 mm fraction: 8 barite 4 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside	
H05	124	0	0	0	10	0	0	0	1	0	Tr	6	0	0	Tr	Tr	2	0	Almandine-hornblende/epidote-diopside assemblage.	(3 gr; see KIM data)	0.25-0.5 mm fraction: 3 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	
H06	77	0	0	0	2	3 pale pink, pale blue	Tr low-Cr diopside (7 gr)	0	Tr	Tr	Tr	2	0	0	0	Tr	2	0	Almandine-hornblende/epidote-titanite assemblage.	(7 gr; see KIM data)	0.5-1.0 mm fraction: 1 pale blue spinel 2 low-Cr diopside 0.25-0.5 mm fraction: 3 spinel 7 low-Cr diopside 7 chromite (picked as KIMs)	Almandine-hornblende/epidote-titanite	
H07	170	0	0	0	3	1 pale blue	Tr low-Cr diopside (4 gr)	0	Tr	Tr	Tr	Tr	0	0	Tr	Tr	2	0	Almandine-hornblende/epidote assemblage. SEM check from 0.5-1.0 mm fraction: 1 barite candidate = 1 leucoxene.	(4 gr; see KIM data)	0.5-1.0 mm fraction: 1 leucoxene resembling barite 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 1 spinel 4 low-Cr diopside 4 chromite (picked as KIMs)	Almandine-hornblende/epidote	SEM check from 0.5-1.0 mm fraction: 1 barite candidate = 1 leucoxene.
H08	132	0	0	Tr (4 gr)	4	0	Tr low-Cr diopside (3 gr)	Tr (1 gr)	2	Tr	Tr	Tr	0	0	Tr	Tr	2	0	Almandine-hornblende/epidote-diopside assemblage.	(1 gr; see KIM data)	0.25-0.5 mm fraction: 3 low-Cr diopside 1 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside	
H09	271	0	0	0	0	1 blue-green	Tr low-Cr diopside (5 gr)	0	0	0	0	25	0	8	Tr	0	Tr	0	Augite/epidote-staurolite assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue-green garnite versus spinel candidate = 1 spinel.	0	1.0-2.0 mm fraction: 1 low-Cr diopside 0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 1 spinel 5 low-Cr diopside	Augite/epidote-staurolite	SEM check from 0.25-0.5 mm fraction: 1 blue-green garnite versus spinel candidate = 1 spinel.
H10	7	0	0	0	Tr	0	Tr low-Cr diopside (1 gr)	Tr (2 gr)	0	Tr	0.5	0.5	0	50	Tr	Tr	15	Tr	Fayalite-augite/diopside-apatite assemblage. SEM checks from 0.25-0.5 mm fraction: 5 fayalite (major paramagnetic assemblage mineral) candidates = 5 fayalite; and 5 hedenbergite versus augite (major paramagnetic assemblage mineral) candidates = 5 Ca-augite.	(1 gr; see KIM data)	0.25-0.5 mm fraction: 1 low-Cr diopside 2 red rutile 1 chromite (picked as KIM) 5 representative fayalite 5 representative augite	Fayalite-augite/diopside-apatite	SEM checks from 0.25-0.5 mm fraction: 5 fayalite (major paramagnetic assemblage mineral) candidates = 5 fayalite; and 5 hedenbergite versus augite (major paramagnetic assemblage mineral) candidates = 5 Ca-augite.
I02	34	0	0	0	5	0	Tr Mn-epidote (1 gr) Tr ruby corundum (1 gr) Tr low-Cr diopside (3 gr)	0	5	0	Tr	10	0	0	2	0	5	Tr	Hornblende-almandine/epidote-titanite-diopside assemblage.	1 Mn-epidote 1 ruby corundum 3 low-Cr diopside	0.25-0.5 mm fraction: 1 Mn-epidote 1 ruby corundum 3 low-Cr diopside	Hornblende-almandine/epidote-titanite-diopside	
I03	87	0	0	0	5	0	Tr sapphirine (1 gr) Tr low-Cr diopside (2 gr)	0	Tr	0	Tr	0	0	0	Tr	Tr	2	0	Almandine-hematite-hornblende/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue garnite versus sapphirine candidate = 1 sapphirine.	(2 gr; see KIM data)	0.25-0.5 mm fraction: 1 sapphirine 2 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hematite-hornblende/epidote diopside	SEM check from 0.25-0.5 mm fraction: 1 blue garnite versus sapphirine candidate = 1 sapphirine.

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm					Mg/Mn/Al/Cr Minerals 0.25-0.5 mm											Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		>1 amp		<1.0 amp			>1.0 amp			0.8-1.0 amp					<0.8 amp		>1.0 amp						
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz					
104	165	0	0	0	5	2 pale blue	Tr low-Cr diopside (1 gr)	0	2	1	Tr	3	0	0	Tr	0	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 2 spinel 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/epidote			
105	217	0	0	0	2	1 blue-green gahnite; 1 blue-green spinel	Tr low-Cr diopside (7 gr)	Tr (3 gr)	0.5	0	Tr	5	0	Tr	0.5	0	0	Almandine-hornblende-hematite/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 2 blue-green gahnite versus spinel candidates = 1 gahnite and 1 spinel.	0.5-1.0 mm fraction: 1 brass (contamination) 0.25-0.5 mm fraction: 1 gahnite 1 spinel 7 low-Cr diopside 3 red rutile	Almandine-hornblende-hematite/epidote diopside	SEM checks from 0.25-0.5 mm fraction: 2 blue-green gahnite versus spinel candidates - 1 gahnite and 1 spinel.		
106	13	0	0	0	5	0	Tr low-Cr diopside (1 gr)	Tr (3 gr)	Tr	Tr	Tr	5	0	0	0	Tr	0	Almandine-hematite/epidote assemblage.	0.5-1.0 mm fraction: 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 1 low-Cr diopside 3 red rutile 4 chromite (picked as KIMs)	Almandine-hematite/epidote			
107	86	Tr (1 gr)	0	0	8	0	Tr low-Cr diopside (10 gr)	Tr (2 gr)	Tr	Tr	Tr	5	0	0	Tr	Tr	0	Almandine-hornblende-augite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 chalcocopyrite 10 low-Cr diopside 2 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende-augite/epidote-diopside			
108	73	0	0	0	5	1 grey green	Tr low-Cr diopside (10 gr)	Tr (2 gr)	0.5	Tr	Tr	4	0	Tr	2	Tr	0	Augite-almandine/epidote-diopside assemblage	0.5-1.0 mm fraction: 1 low-Cr diopside 3 representative fayalite (see KIM notes) 0.25-0.5 mm fraction: 1 spinel 10 low-Cr diopside 2 red rutile 8 chromite (picked as KIMs)	Augite-almandine/epidote-diopside			
109	60	0	0	Tr (1 gr)	1	0	Tr low-Cr diopside (3 gr)	Tr (2 gr)	3	Tr	Tr	5	0	Tr	0	0	Tr	Augite/epidote-diopside-titanite assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside 2 red rutile	Augite/epidote-diopside-titanite			
110	155	0	0	0	3	1 pale blue	Tr low-Cr diopside (6 gr)	0	1	0.5	Tr	2	0	Tr	7	Tr	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 1 spinel 6 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/epidote			
J02	66	0	0.5% barite (~40 gr)	0.2 (~15 gr)	8	0	Tr low-Cr diopside (4 gr)	0	Tr	Tr	Tr	2	0	0	0	0	Tr	Almandine-hornblende-hematite/epidote-diopside assemblage. SEM checks from 0.5-1.0 mm fraction: 10 barite candidates = 10 barite. SEM checks from 0.25-0.5 mm fraction: 5 pyrite versus pentlandite candidates = 5 pyrite. 0.5-1.0 mm fraction contains 0.5% (~25 grains) barite.	1.0-2.0 mm fraction: 1 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 5 pyrite resembling pentlandite 4 low-Cr diopside	Almandine-hornblende-hematite/epidote diopside	SEM checks from 0.5-1.0 mm fraction: 10 barite candidates = 10 barite. SEM checks from 0.25-0.5 mm fraction: 5 pyrite versus pentlandite candidates = 5 pyrite. 0.5-1.0 mm fraction contains 0.5% (~25 grains) barite.		
J03	47	0	Tr barite (~40 gr)	Tr (1 gr)	3	1 grey	Tr low-Cr diopside (2 gr)	Tr (1 gr)	Tr	Tr	Tr	1	0	0	Tr	0	3	Almandine-hornblende-hematite/epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 10 barite candidates = 9 barite and 1 calcite.	0.5-1.0 mm fraction: 9 barite 1 calcite resembling barite 0.25-0.5 mm fraction: 28 representative barite 1 spinel 2 low-Cr diopside 1 red rutile	Almandine-hornblende-hematite/epidote	SEM checks from 0.5-1.0 mm fraction: 10 barite candidates = 9 barite and 1 calcite.		
J04	103	0	0	0	10	0	Tr low-Cr diopside (6 gr)	0	3	0	Tr	5	0	0	0.5	0	5	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 6 low-Cr diopside	Almandine-hornblende/epidote-diopside			
J05	226	0	0	0	Tr	1 pale blue	Tr low-Cr diopside (6 gr)	Tr (1 gr)	1	0	0	5	0	Tr	0	0	Tr	Almandine-hornblende-hematite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 spinel 6 low-Cr diopside 1 red rutile	Almandine-hornblende-hematite/epidote diopside			
J06	183	0	0	0	10	0	Tr low-Cr diopside (8 gr)	0	1	Tr	Tr	7	0	Tr	3	Tr	0	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 8 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside			

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		>1 amp		<1.0 amp			>1.0 amp			0.8-1.0 amp					<0.8 amp			>1.0 amp					
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz					
J07	204	0	0	0	7	1 blue	Tr Mn-epidote (1 gr) Tr low-Cr diopside (8 gr)	0	Tr	Tr	Tr	Tr	20	0	5	Tr	0	Tr	0	Augite-hematite-almandine/epidote-staurolite assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue gahnite versus spinel candidate = 1 spinel.	1 spinel 8 low-Cr diopside 15 representative forsterite (see KIM data; picked as KIMs)	Augite-hematite-almandine/epidote-staurolite	SEM check from 0.25-0.5 mm fraction: 1 blue gahnite versus spinel candidate = 1 spinel.
J08	107	0	0	0	1	0	Tr low-Cr diopside (2 gr)	Tr (2 gr)	Tr	Tr	Tr	Tr	5	0	0	1	Tr (8 gr; see KIM data)	Tr	0	Augite-almandine-hornblende/epidote-staurolite assemblage. SEM checks from 0.25-0.5 mm fraction: 4 augite (major nonparamagnetic assemblage mineral) versus orthopyroxene candidates = 3 augite and 1 bronzite.	diopside 0.25-0.5 mm fraction: 2 low-Cr diopside 2 red rutile 4 representative augite 1 bronzite resembling augite 8 chromite (picked as KIMs) 2 forsterite (see KIM data; picked as KIMs)	Augite-almandine-hornblende/epidote-diopside	SEM checks from 0.25-0.5 mm fraction: 4 augite (major nonparamagnetic assemblage mineral) versus orthopyroxene candidates = 1 augite and 1 bronzite.
J09	130	0	0	0	5	3 grey, blue-grey, pale pink	0.5% low-Cr diopside (15 gr)	0	2	Tr	Tr	Tr	20	0	Tr	Tr	Tr (1 gr; see KIM data)	5	0	Augite-almandine-hornblende/epidote-staurolite assemblage.	diopside 0.25-0.5 mm fraction: 3 spinel 15 low-Cr diopside 1 chromite (picked as KIM)	Augite-almandine-hornblende/epidote-diopside-staurolite	
J10	20	0	0	60 (~5000 gr)	0	0	Tr low-Cr diopside (4 gr)	0	Tr	0	Tr	6	0	0	1	Tr (1 gr; see KIM data)	5	0	Siderite-almandine-hornblende-ilmenite/pyrite-epidote assemblage. Ilmenite occurs mainly as moderately-worn, second-cycle grains and "pyrite" is mainly marcasite.	0.25-0.5 mm fraction: 4 low-Cr diopside 1 chromite (picked as KIM)	Siderite-almandine-hornblende-ilmenite/pyrite-epidote	Ilmenite occurs mainly as moderately-worn, second-cycle grains and "pyrite" is mainly marcasite.	
K02	273	0	4% barite (~700 gr)	70 (~1200 gr)	Tr	0	0	0	Tr	Tr	Tr	Tr	2	0	0	Tr	0	Tr	0	Siderite-almandine/pyrite-epidote assemblage. 0.5-1.0 mm fraction contains 0.2% (~30 gr) barite. "Pyrite" is mainly marcasite.	1.0-2.0 mm fraction: 3 barite 0.5-1.0 mm fraction: 15 representative barite 0.25-0.5 mm fraction: 20 representative barite	Siderite-almandine/pyrite-epidote	0.5-1.0 mm fraction contains 0.2% (~30 gr) barite. "Pyrite" is mainly marcasite.
K03	41	0	5% barite (~200 gr)	0	3	0	Tr low-Cr diopside (4 gr)	0	Tr	Tr	Tr	Tr	3	0	0	1	Tr (4 gr; see KIM data)	5	0	Almandine-hornblende/epidote assemblage.	1.0-2.0 mm fraction: 6 barite 0.5-1.0 mm fraction: 27 barite 0.25-0.5 mm fraction: 20 representative barite 4 low-Cr diopside 4 chromite (picked as KIMs)	Almandine-hornblende/epidote	
K04	250	0	0	Tr (2 gr)	Tr	0	Tr low-Cr diopside (2 gr)	Tr (1 gr)	Tr	Tr	Tr	Tr	1	0	0	Tr	0	Tr	0	Almandine-hornblende-hematite/epidote-diopside-titanite assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside 1 red rutile	Almandine-hornblende-hematite/epidote-diopside-titanite	
K05	21	0	0	0	3	1 pale blue	0	Tr (3 gr)	Tr	Tr	Tr	Tr	3	0	Tr	Tr	Tr (8 gr; see KIM data)	Tr	0	Almandine-hornblende-hematite/epidote assemblage.	0.25-0.5 mm fraction: 1 spinel 3 red rutile 8 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote	
K06	261	0	0	0	2	3 pale blue	Tr Mn-epidote (1 gr) Tr low-Cr diopside (7 gr)	0	Tr	Tr	Tr	Tr	8	0	20	Tr	Tr (4 gr; see KIM data)	1	0	Augite-almandine-fayalite/epidote assemblage.	0.5-1.0 mm fraction: 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 3 spinel 1 Mn-epidote 7 low-Cr diopside 4 chromite (picked as KIMs) 20 representative forsterite (see KIM data; picked as KIMs)	Augite-almandine-fayalite/epidote	
K07	148	0	0	0	Tr	0	0	0	0	Tr	Tr	Tr	10	0	10	Tr	Tr (1 gr; see KIM data)	Tr	0	Augite/diopside-epidote assemblage.	0.25-0.5 mm fraction: 1 chromite (picked as KIM) 4 forsterite (see KIM data; picked as KIMs)	Augite/diopside-epidote	

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm					Mg/Mn/Al/Cr Minerals 0.25-0.5 mm											Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks	
		>1 amp			<1.0 amp		>1.0 amp			0.8-1.0 amp				<0.8 amp				>1.0 amp						
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour	Misc. Prime MMSIMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz						
K08	121	Tr (1 gr)	0	0	0	0	0	Tr corundum (1 gr) Tr low-Cr diopside (4 gr)	Tr (1 gr)	0	0	Tr	2	0	15	0	0	Tr (8 gr; see KIM data)	2	0	Augite-fayalite-ilmenite/diopside-epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 2 barite versus leucoxene candidates = 1 florencite (Ce,REE)Al3(PO4)2(OH)6 and 1 corundum.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 1 chalcocopyrite 1 florencite resembling barite 1 corundum 4 low-Cr diopside 1 red rutile 8 chromite (picked as KIMs)	Augite-fayalite-ilmenite/diopside-epidote	SEM checks from 0.25-0.5 mm fraction: 2 barite versus leucoxene candidates = 1 florencite (Ce,REE)Al3(PO4)2(OH)6 and 1 corundum.
K09	111	0	0	0	0	0	Tr low-Cr diopside (3 gr)	Tr (5 gr)	0	0	Tr	2	0	8	0	0	Tr (1 gr; see KIM data)	3	Tr	Augite-ilmenite/diopside assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside 5 red rutile 1 chromite (picked as KIM) 2 forsterite (see KIM data; picked as KIMs)	Augite-ilmenite/diopside		
K10	228	0	0	0	Tr	1 green	Tr ruby corundum (1 gr) Tr low-Cr diopside (4 gr)	Tr (1 gr)	0.5	0	Tr	5	0	Tr	0	0	0	Tr	Tr	Almandine-augite-hornblende/epidote- diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 spinel; and 1 purple spinel versus almandine candidate = 1 ruby corundum.	0.25-0.5 mm fraction: 1 spinel 1 ruby corundum 4 low-Cr diopside 1 red rutile 1 forsterite (see KIM data; picked as KIM)	Almandine-augite-hornblende/epidote- diopside	SEM checks from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 spinel; and 1 purple spinel versus almandine candidate = 1 ruby corundum.	
L02	18	0	0	0	3	0	Tr low-Cr diopside (2 gr)	Tr (1 gr)	Tr	0	Tr	2	0	0	Tr	Tr (3 gr; see KIM data)	1	Tr	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside 1 red rutile 3 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside			
L03	251	0	Tr barite (~25 gr)	0	Tr	0	Tr low-Cr diopside (4 gr)	Tr (2 gr)	1	Tr	Tr	5	0	0	Tr	Tr (1 gr; see KIM data)	3	0	Almandine-hornblende-hematite/epidote- diopside assemblage.	1.0-2.0 mm fraction: 3 barite 0.5-1.0 mm fraction: 12 barite 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 15 representative barite 4 low-Cr diopside 2 red rutile 1 chromite (picked as KIM)	Almandine-hornblende-hematite/epidote diopside			
L04	220	0	0	Tr (2 gr)	15	1 grey	Tr low-Cr diopside (12 gr)	0	2	Tr	Tr	10	0	0	Tr	Tr (3 gr; see KIM data)	2	0	Hornblende-almandine-goethite/epidote- diopside assemblage.	0.25-0.5 mm fraction: 1 spinel 12 low-Cr diopside 3 chromite (picked as KIMs)	Hornblende-almandine-goethite/epidote- diopside			
L05E	23	0	0	Tr (2 gr)	4	1 blue-green gahnite	0	Tr (1 gr)	Tr	Tr	Tr	8	0	Tr	Tr	0	5	0	Almandine-ilmenite/epidote assemblage. SEM check from 0.5-1.0 mm fraction: 1 green gahnite versus spinel candidate = 1 spinel. SEM checks from 0.25-0.5 mm fraction: 1 blue-green gahnite versus sapphire candidate = 1 gahnite; and 3 yellow siderite versus fayalite candidates = 3 fayalite.	0.5-1.0 mm fraction: 1 green spinel 0.25-0.5 mm fraction: 1 red rutile 3 fayalite	Almandine-ilmenite/epidote	SEM check from 0.5-1.0 mm fraction: 1 green gahnite versus spinel candidate = 1 spinel. SEM checks from 0.25-0.5 mm fraction: 1 blue-green gahnite versus sapphire candidate = 1 gahnite; and 3 yellow siderite versus fayalite candidates = 3 fayalite.		
L05W	4	0	0	Tr (2 gr)	10	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	Tr	0	Tr	1	0	0	0	0	2	0	Almandine-hornblende/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 2 Sn-metal versus Zn-metal candidates = 2 Zn-metal (contamination).	0.25-0.5 mm fraction: 1 low-Cr diopside 1 red rutile 2 Zn-metal (contamination)	Almandine-hornblende/epidote	SEM checks from 0.25-0.5 mm fraction: 2 Sn-metal versus Zn-metal candidates = 2 Zn-metal (contamination).		
L06E	40	Tr (1 gr)	0	15 (~450 gr)	Tr	1 pale blue-green	Tr low-Cr diopside (9 gr)	0	Tr	Tr	Tr	5	0	0	0	Tr (3 gr; see KIM data)	20	0	Augite-ilmenite/diopside-apatite-pyrite-epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 10 earthy orange barite versus siderite candidates = 10 siderite. SEM check from 0.25-0.5 mm fraction: 1 pale blue-green gahnite versus spinel candidate = 1 spinel. "Pyrite" is mainly marcasite.	0.5-1.0 mm fraction: 10 siderite resembling barite 0.25-0.5 mm fraction: 1 chalcocopyrite 1 spinel 9 low-Cr diopside 3 chromite (picked as KIMs) 1 forsterite (see KIM data; picked as KIM)	Augite-ilmenite/diopside-apatite-pyrite-epidote	SEM checks from 0.5-1.0 mm fraction: 10 earthy orange barite versus siderite candidates = 10 siderite. SEM check from 0.25-0.5 mm fraction: 1 pale blue-green gahnite versus spinel candidate = 1 spinel. "Pyrite" is mainly marcasite.		

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Batch Number: 2492

Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm					Mg/Mn/Al/Cr Minerals 0.25-0.5 mm											Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	% # Grains + Colour Spinel	>1.0 amp				0.8-1.0 amp			<0.8 amp				>1.0 amp					
L06WA	218	0	0	0	3	2 pale blue	Misc. Prime MMSIMs Tr Mn-epidote (3 gr) Tr low-Cr diopside (3 gr)	% Rutile (1 gr)	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr (7 gr; see KIM data)	% Ap	% Mz	Almandine-hornblende-hematite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 2 spinel 3 Mn-epidote 3 low-Cr diopside 1 red rutile 7 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote diopside		
L06WB	184	0	0	20 (~2000 gr)	8	0	Tr low-Cr diopside (1 gr)	0	Tr	Tr	Tr	5	0	0	0	0	5	0	Almandine-hornblende/epidote-pyrite assemblage. "Pyrite" is mainly marcasite.	0.25-0.5 mm fraction: 1 low-Cr diopside	Almandine-hornblende/epidote-pyrite	"Pyrite" is mainly marcasite.	
L07	44	0	0	0	10	0	Tr low-Cr diopside (2 gr)	Tr (5 gr)	Tr	Tr	Tr	10	0	0	0	Tr (2 gr; see KIM data)	3	0	Hematite-almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside 5 red rutile 2 chromite (picked as KIMs)	Hematite-almandine-hornblende/epidote		
L08	267	0	0	0	5	0	Tr low-Cr diopside (3 gr)	Tr (1 gr)	0	0	0	15	0	0	0	0	Tr	0	Hematite-almandine-hornblende/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside 1 red rutile	Hematite-almandine-hornblende/epidote staurolite		
L09	19	0	0	0	3	0	Tr low-Cr diopside (3 gr)	0	Tr	Tr	Tr	5	0	30	Tr	0	Tr	Tr	Augite-fayalite-hematite/diopside-epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 2 red monazite versus other REE mineral candidates = 2 florencite.	0.25-0.5 mm fraction: 3 low Cr diopside 2 florencite	Augite-fayalite-hematite/diopside-epidote	SEM checks from 0.25-0.5 mm fraction: 2 red monazite versus other REE mineral candidates = 2 florencite.	
L10	99	0	0	0	0	0	Tr low-Cr diopside (3 gr)	Tr (2 gr)	0	Tr	Tr	0	0	1	0.5	Tr (8 gr; see KIM data)	Tr	0	Augite/diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 5 fayalite candidates = 4 fayalite and 1 K-feldspar. Augite dominates all fractions.	0.25-0.5 mm fraction: 3 low-Cr diopside 2 red rutile 8 chromite (picked as KIMs) 4 representative fayalite 1 K-feldspar resembling fayalite	Augite/diopside	SEM checks from 0.25-0.5 mm fraction: 5 fayalite candidates = 4 fayalite and 1 K-feldspar. Augite dominates all fractions.	
L11	150	0	0	0	0	2 green	Tr low-Cr diopside (1 gr)	Tr (2 gr)	0	Tr	Tr	Tr	0	Tr	0	0	Tr	Tr	Augite/diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 2 spinel.	0.25-0.5 mm fraction: 2 spinel 1 low-Cr diopside 2 red rutile	Augite/diopside	SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 2 spinel.	
M02	78	0	0	Tr (7 gr)	10	1 pale blue	Tr low-Cr diopside (1 gr)	Tr (1 gr)	1	1	Tr	2	0	0	Tr	Tr (2 gr; see KIM data)	2	0	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 spinel 1 low-Cr diopside 1 red rutile 2 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside		
M03	152	0	0	0	5	0	Tr low-Cr diopside (2 gr)	0	1	1	0	1	0	0	Tr	0	Tr	0	Almandine-hornblende/epidote-titanite assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside	Almandine-hornblende/epidote-titanite		
M04	248	0	0	0	15	0	Tr low-Cr diopside (5 gr)	0	2	Tr	Tr	5	0	0	Tr	Tr (1 gr; see KIM data)	5	0	Hornblende-almandine-goethite/epidote-titanite assemblage.	0.25-0.5 mm fraction: 5 low-Cr diopside 1 chromite (picked as KIM)	Hornblende-almandine-goethite/epidote-titanite		
M05	29	0	Tr fluorite (1 gr)	0	8	3 colourless, grey blue	Tr Mn-epidote (1 gr) Tr low-Cr diopside (13 gr)	Tr (3 gr)	Tr	Tr	Tr	8	0	0	Tr	Tr (10 gr; see KIM data)	Tr	Tr	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 1 fluorite 3 spinel 1 Mn-epidote 13 low-Cr diopside 3 red rutile 10 chromite (picked as KIMs)	Almandine-hornblende/epidote		
M06	49	0	0	0	2	3 pale blue, blue-green	Tr low-Cr diopside (1 gr)	Tr (4 gr)	Tr	Tr	Tr	1	5	0	0	Tr (2 gr; see KIM data)	8	0	Almandine-ilmenite-hornblende-hematite/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.	0.25-0.5 mm fraction: 3 spinel 1 low-Cr diopside 4 red rutile 2 chromite (picked as KIMs)	Almandine-ilmenite-hornblende-hematite/epidote-diopside	SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.	
M07	172	0	0	0	Tr	3 pale blue, blue-green	Tr low-Cr diopside (1 gr)	Tr (4 gr)	Tr	Tr	Tr	8	0	0	2	0	Tr	0	Almandine-ilmenite/epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.	0.25-0.5 mm fraction: 3 spinel 1 low-Cr diopside 4 red rutile	Almandine-ilmenite/epidote	SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.	
M08	128	0	0	0	0	0	Tr low-Cr diopside (6 gr)	0	0	Tr	Tr	40	0	Tr	0	Tr (2 gr; see KIM data)	Tr	Tr	Augite-almandine-ilmenite/staurolite-diopside assemblage.	0.25-0.5 mm fraction: 6 low-Cr diopside 2 chromite (picked as KIMs)	Augite-almandine-ilmenite/staurolite-diopside		

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp				>1.0 amp	
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz	Remarks	Picked Grains							
M09	180	0	0	0	0	0	Tr low-Cr diopside (4 gr)	0	0	1	0	Tr	0	0	0	0	0	10	0	Augite/diopside assemblage. Augite dominates all fractions.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 4 low-Cr diopside	Augite/diopside	Augite dominates all fractions.				
M10	188	0	0	0	0	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	0	0	Tr	0	0	3	0	0	1	Tr	0	Augite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 red rutile	Augite/epidote-diopside					
M11	120	0	0	0	0	0	Tr low-Cr diopside (1 gr)	Tr (9 gr)	0	0	5	0	0	8	0	0	3	0	0	Augite-hematite/leucoxene assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 9 red rutile	Augite-hematite/leucoxene					
N03	215	0	Tr barite (2 gr)	Tr (2 gr)	4	0	Tr topaz (1 gr) Tr sapphire corundum (1 gr) Tr low-Cr diopside (1 gr)	Tr (1 gr)	0	0	Tr	4	0	0	0	Tr (1 gr; see KIM data)	4	0	0	Almandine-hornblende/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 2 barite candidates = 2 barite; 1 colourless spinel versus topaz candidate = 1 topaz; and 1 blue sapphire corundum candidate = 1 sapphire corundum.	0.25-0.5 mm fraction: 2 barite 1 topaz 1 sapphire corundum 1 low-Cr diopside 1 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside	SEM checks from 0.25-0.5 mm fraction: 2 barite candidates = 2 barite; 1 colourless spinel versus topaz candidate = 1 topaz; and 1 blue sapphire corundum candidate = 1 sapphire corundum.				
N04	147	0	0	Tr (1 gr)	7	0	0	0	Tr	0	0	3	0	0	0	Tr (1 gr; see KIM data)	2	0	0	Almandine-hornblende-hematite/epidote assemblage.	0.25-0.5 mm fraction: 1 chromite (picked as KIM)	Almandine-hornblende-hematite/epidote					
N05	138	0	0	0	2	0	Tr Mn-epidote (1 gr) Tr Cr-grossular (1 gr) Tr low-Cr diopside (2 gr)	Tr (3 gr)	0	Tr	0	5	0	0	Tr (9 gr; see KIM data)	1	0	0	Almandine-hornblende/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 pink Mn-epidote candidate = 1 Mn-epidote; and 1 Cr-grossular candidate = 1 Cr-grossular.	0.25-0.5 mm fraction: 1 Mn-epidote 1 Cr-grossular 2 low-Cr diopside 3 red rutile 9 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	SEM check from 0.25-0.5 mm fraction: 1 pink Mn-epidote candidate = 1 Mn-epidote; and 1 Cr-grossular candidate = 1 Cr-grossular.					
N06	202	0	0	0	1	1 blue-grey	Tr low-Cr diopside (10 gr)	0	Tr	Tr	Tr	2	0	0	Tr (6 gr; see KIM data)	3	0	0	Almandine-hornblende-ilmenite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 spinel 10 low-Cr diopside 6 chromite (picked as KIMs)	Almandine-hornblende-ilmenite/epidote-diopside						
N07	16	0	0	0	5	0	Tr sapphire corundum (1 gr) Tr low-Cr diopside (2 gr)	Tr (2 gr)	Tr	0	Tr	20	0	Tr	0.5	Tr (1 gr; see KIM data)	Tr	0	0	Almandine-hematite-hornblende/epidote-staurolite assemblage. SEM check from 0.5-1.0 mm fraction: 1 blue gahnite versus spinel candidate = 1 spinel.	0.5-1.0 mm fraction: 1 spinel 0.25-0.5 mm fraction: 1 sapphire corundum 2 low-Cr diopside 2 red rutile 1 chromite (picked as KIM)	Almandine-hematite-hornblende/epidote-staurolite	SEM check from 0.5-1.0 mm fraction: 1 blue gahnite versus spinel candidate = 1 spinel.				
N08	259	0	0	0	0	0	Tr low-Cr diopside (3 gr)	Tr (1 gr)	0	Tr	0	2	0	8	0	0	1	0	0	Augite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside 1 red rutile 21 representative forsterite (see KIM data; picked as KIMs)	Augite/epidote-diopside					
N09	32	0	0	0	8	0	0	0	Tr	Tr	Tr	15	0	Tr	1	Tr (7 gr; see KIM data)	Tr	0	0	Almandine-hematite-hornblende/epidote-staurolite assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 7 chromite (picked as KIMs)	Almandine-hematite-hornblende/epidote-staurolite					
N10	242	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	Tr	0	0	Augite/epidote assemblage.		Augite/epidote					
N11	266	0	0	0	Tr	0	0	0	0	Tr	Tr	0	0	10	0	0	Tr	Tr	0	Augite/epidote assemblage.	0.25-0.5 mm fraction: 11 forsterite (see KIM data; picked as KIMs)	Augite/epidote					
N12	270	0	Tr malachite + chalcocite (4 gr)	0	Tr	0	0	0	0	Tr	Tr	0	0	25	0	0	Tr	0	0	Augite-fayalite/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 2 malachite-mantled sulphide grains = 2 malachite + chalcocite.	0.25-0.5 mm fraction: 4 malachite + chalcocite	Augite-fayalite/epidote-diopside	SEM checks from 0.25-0.5 mm fraction: 2 malachite-mantled sulphide grains = 2 malachite + chalcocite.				
O03	177	0	0	0	3	0	Tr low-Cr diopside (2 gr)	Tr (1 gr)	Tr	Tr	Tr	3	0	0	0	Tr (4 gr; see KIM data)	1	0	0	Almandine-hornblende-hematite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside 1 red rutile 4 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote-diopside					

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Batch Number: 2492

Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm					Mg/Mn/Al/Cr Minerals 0.25-0.5 mm											Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		>1 amp			<1.0 amp		>1.0 amp			0.8-1.0 amp			<0.8 amp		>1.0 amp								
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour	Misc. Prime MMSIMs	% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz					
O04	8	0	0	0.3 (8 gr)	5	1 grey	Tr Mn-epidote (1 gr)	Tr (1 gr)	Tr	Tr	Tr	0	2	0	0	2	Tr (2 gr; see KIM data)	2	0	Hornblende-almandine/epidote assemblage.	0.25-0.5 mm fraction: 1 spinel 1 Mn-epidote 1 low-Cr diopside 1 red rutile 2 chromite (picked as KIMs)	Hornblende-almandine/epidote	
O05	272	0	0	0	Tr	1 pale blue	Tr ruby corundum (1 gr)	Tr (2 gr)	Tr	Tr	Tr	3	0	0	0	0	Tr (3 gr; see KIM data)	2	Tr	Almandine-hornblende/epidote-diopside assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 1 spinel 1 ruby corundum 10 low-Cr diopside 2 red rutile 3 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	
O06	207	0	0	0	5	1 pale blue	Tr chondrodite (1 gr)	Tr (2 gr)	0	Tr	Tr	3	0	0	0	0	Tr (8 gr; see KIM data)	Tr	1	Almandine-hornblende/epidote-diopside assemblage.	0.5-1.0 mm fraction: 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 1 spinel 1 chondrodite 7 low-Cr diopside 2 red rutile 8 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	
O07	182	0	0	0	1	1 pale blue	Tr low-Cr diopside (10 gr)	Tr (5 gr)	Tr	Tr	Tr	15	0	2	0	0	Tr (~10 gr; see KIM data)	2	Tr	Augite-almandine/epidote-staurolite assemblage. SEM check from 0.25-0.5 mm fraction: 1 brass candidate = 1 CuSn-bronze (contamination).	0.25-0.5 mm fraction: 1 spinel 10 low-Cr diopside 5 red rutile 4 representative chromite (picked as KIMs) 1 bronze (contamination)	Augite-almandine/epidote-staurolite	SEM check from 0.25-0.5 mm fraction: 1 brass candidate = 1 CuSn-bronze (contamination).
O08	212	0	0	0	5	2 green gahnite; 3 pale blue spinel	Tr Cr-grossular (1 gr)	Tr (1 gr)	0	Tr	Tr	3	0	2	0	0	Tr (1 gr; see KIM data)	Tr	0	Hematite-almandine-hornblende-augite/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 2 gahnite; and 1 Cr-grossular candidate = 1 Cr-grossular.	0.25-0.5 mm fraction: 2 gahnite 3 spinel 1 Cr-grossular 3 low-Cr diopside 1 red rutile 1 chromite (see KIM data; picked as KIM) 2 forsterite (see KIM data; picked as KIMs)	Hematite-almandine-hornblende-augite/epidote-diopside	SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 2 gahnite; and 1 Cr-grossular candidate = 1 Cr-grossular.
O09	246	0	0	0	10	0	0	0	Tr	0	0	15	0	Tr	Tr	0	1	0	Hematite-almandine-hornblende/epidote-diopside-staurolite assemblage.		Hematite-almandine-hornblende/epidote-diopside-staurolite		
O10	162	0	0	0.5 (~25 gr)	Tr	0	Tr Cr-grossular (1 gr)	0	0	Tr	Tr	5	0	1	Tr	Tr (3 gr; see KIM data)	Tr	Tr	Augite/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 Cr-grossular candidate = 1 Cr-grossular.	0.25-0.5 mm fraction: 1 Cr-grossular 4 low-Cr diopside 3 chromite (picked as KIMs)	Augite/epidote-diopside	SEM check from 0.25-0.5 mm fraction: 1 Cr-grossular candidate = 1 Cr-grossular.	
O11	221	0	0	0	Tr	0	Tr low-Cr diopside (4 gr)	0	0	0	Tr	1	0	20	0	0	Tr	Tr	Augite-fayalite-ilmenite/diopside assemblage.	0.25-0.5 mm fraction: 4 low-Cr diopside	Augite-fayalite-ilmenite/diopside		
O12	65	0	1% barite (8 gr)	1 (7 gr)	Tr	0	0	0	Tr	Tr	1	Tr	0	Tr	0	0	1	0	Augite-hematite/diopside assemblage. "Pyrite" is mainly marcasite.	0.25-0.5 mm fraction: 8 barite	Augite-hematite/diopside	"Pyrite" is mainly marcasite.	
P03	37	Tr (3 gr)	0	0	8	0	Tr low-Cr diopside (3 gr)	Tr (1 gr)	Tr	Tr	Tr	3	0	0	1	Tr (3 gr; see KIM data)	10	0	Hornblende-almandine/epidote-titanite- diopside assemblage.	0.25-0.5 mm fraction: 3 chalcopyrite 3 low-Cr diopside 1 red rutile 3 chromite (picked as KIMs)	Hornblende-almandine/epidote-titanite-diopside		
P04	28	0	0	1 (10 gr)	5	0	Tr low-Cr diopside (1 gr)	0	Tr	0	0	3	0	0	Tr	Tr (2 gr; see KIM data)	0	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/epidote		

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm					Mg/Mn/Al/Cr Minerals 0.25-0.5 mm											Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		>1 amp			<1.0 amp	# Grains + Colour	>1.0 amp			0.8-1.0 amp			<0.8 amp		>1.0 amp								
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth		% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz						
P05	206	Tr (3 gr)	0	0	1	0	0	Tr (3 gr)	Tr	Tr	Tr	Tr	3	0	0	0	Tr (2 gr; see KIM data)	5	Tr	Hornblende-almandine/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 barite candidate = 1 zoisite.	3 chalcocopyrite 1 zoisite resembling barite 3 red rutile 2 chromite (picked as KIMs)	Hornblende-almandine/epidote-diopside	SEM check from 0.25-0.5 mm fraction: 1 barite candidate = 1 zoisite.
P06	268	0	0	0	3	3 pale blue	Tr ruby corundum (1 gr)	Tr (1 gr)	Tr	Tr	Tr	Tr	0	0	0	0	Tr (3 gr; see KIM data)	1	Tr	Almandine-hornblende-hematite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 3 spinel 1 ruby corundum 1 red rutile 3 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote diopside	
P07	48	0	0	0	1	0	Tr sapphirine (1 gr) Tr low-Cr diopside (1 gr)	Tr (1 gr)	0.5	Tr	Tr	Tr	5	0	0	0	Tr (4 gr; see KIM data)	1	0	Hornblende-almandine/epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 cloudy blue gahnite versus spinel candidate = 1 sapphirine.	0.25-0.5 mm fraction: 1 sapphirine 1 low-Cr diopside 1 red rutile 4 chromite (picked as KIMs)	Hornblende-almandine/epidote	SEM check from 0.25-0.5 mm fraction: 1 cloudy blue gahnite versus spinel candidate = 1 sapphirine.
P08	247	0	0	Tr (1 gr)	3	0	0	Tr (1 gr)	0	Tr	Tr	Tr	2	0	0	0	Tr (2 gr; see KIM data)	4	0	Almandine-hornblende/epidote-titanite assemblage. SEM check from 0.5-1.0 mm fraction: 1 arsenopyrite versus loellingite candidate = 1 loellingite.	0.5-1.0 mm fraction: 1 loellingite 0.25-0.5 mm fraction: 1 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-titanite	SEM check from 0.5-1.0 mm fraction: 1 arsenopyrite versus loellingite candidate = 1 loellingite.
P09	154	0	0	0	30	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (4 gr)	Tr (2 gr)	0	0	0	0	20	0	0	5	Tr (3 gr; see KIM data)	Tr	0	Hematite-goethite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 Mn-epidote 4 low-Cr diopside 2 red rutile 3 chromite (picked as KIMs)	Hematite-goethite/epidote-staurolite	
P10	157	0	0	0	0.5	0	Tr low-Cr diopside (1 gr)	0	Tr	0	0	10	0	10	Tr	0	0	10	0	Augite-ilmenite/titanite-diopside-epidote assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 1 low-Cr diopside	Augite-ilmenite/titanite-diopside-epidote	
P11	123	0	0	0	0	0	Tr low-Cr diopside (6 gr)	0	0	0	Tr	Tr	0	15	Tr	0	0	20	0	Augite-fayalite/titanite-diopside-apatite assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 6 low-Cr diopside 20 representative forsterite (see KIM data; picked as KIMs)	Augite-fayalite/titanite-diopside-apatite	
P12	62	0	0	Tr (1 gr)	0.5	0	Tr low-Cr diopside (3 gr)	0	0	0	Tr	0	0	0	5	0	0	15	0	Augite/epidote-diopside-apatite assemblage. Augite dominates all fractions.	0.25-0.5 mm fraction: 3 low-Cr diopside	Augite/epidote-diopside-apatite	Augite dominates all fractions.
P13	10	0	0	2 (3 gr)	Tr	0	Tr low-Cr diopside (7 gr)	0	0	Tr	Tr	Tr	0	3	Tr	0	0	20	0	Augite/titanite-diopside-apatite assemblage. SEM checks from 0.5-1.0 mm fraction: 4 yellow spessartine versus andradite candidates = 1 andradite, 1 fayalite, 1 hypersthene and 1 forsterite. SEM checks from 0.25-0.5 mm fraction: 5 representative augite (major paramagnetic assemblage mineral) versus pigeonite candidates = 3 Ca-augite and 2 pigeonite (grouped with augite in mineral assemblage).	0.5-1.0 mm fraction: 1 andradite resembling spessartine 1 fayalite resembling spessartine 1 hypersthene resembling spessartine 1 forsterite resembling spessartine (picked as KIM) SEM checks from 0.25-0.5 mm fraction: 7 low-Cr diopside 3 representative augite 2 representative pigeonite 6 representative forsterite (see KIM data; picked as KIMs)	Augite/titanite-diopside-apatite	SEM checks from 0.5-1.0 mm fraction: 4 yellow spessartine versus andradite candidates = 1 andradite, 1 fayalite, 1 hypersthene and 1 forsterite. SEM checks from 0.25-0.5 mm fraction: 5 representative augite (major paramagnetic assemblage mineral) versus pigeonite candidates = 3 Ca-augite and 2 pigeonite (grouped with augite in mineral assemblage).
Q02	72	0	Tr galena (2 gr) Tr cerussite (7 gr) Tr barite (2 gr)	Tr (3 gr)	0	0	0	Tr (1 gr)	Tr	Tr	0	Tr	0	0	0	0	Tr (1 gr; see KIM data)	5	0	Hornblende-almandine/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 2 matte-grey galena candidates = 2 galena; 2 platy, orange to white, secondary precipitates = 2 barite 2 cerussite (probably contamination); and 2 barite versus apatite candidates = 2 barite.	0.25-0.5 mm fraction: 2 galena 7 cerussite 2 barite 1 red rutile 1 chromite (picked as KIM)	Hornblende-almandine/epidote	SEM checks from 0.25-0.5 mm fraction: 2 matte-grey galena candidates = 2 galena; 2 platy, orange to white, secondary precipitates = 2 cerussite (probably contamination); and 2 barite versus apatite candidates = 2 barite.

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm							Mg/Mn/Al/Cr Minerals 0.25-0.5 mm											Phosphates			Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks											
		>1 amp			<1.0 amp				>1.0 amp						0.8-1.0 amp					<0.8 amp							>1.0 amp										
		% Cpy	Misc. Prime MMSiMs	% Py	% Gth	# Grains + Colour	Misc. Prime MMSiMs	% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz	Tr	Tr	Tr	Tr					Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr			
Q03	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Siderite-almandine-hornblende/pyrite assemblage. "Pyrite" is mainly marcasite.	0.25-0.5 mm fraction: 1 chromite (picked as KIM)	Siderite-almandine-hornblende/pyrite	"Pyrite" is mainly marcasite.		
Q03A	129	0	1% barite (-40 gr)	1 (-40 gr)	2	0	Tr low-Cr diopside (1 gr)	0	Tr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	Almandine-hornblende/epidote-titanite assemblage. SEM checks from 1.0-2.0 mm fraction: 2 barite versus siderite candidates = 2 barite. SEM checks from 0.5-1.0 mm fraction: 4 barite versus siderite candidates = 4 barite.	0.25-0.5 mm fraction: 20 representative barite 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-titanite	SEM checks from 1.0-2.0 mm fraction: 2 barite versus siderite candidates = 2 barite. SEM checks from 0.5-1.0 mm fraction: 4 barite versus siderite candidates = 4 barite.			
Q04	257	0	0	Tr (1 gr)	5	0	Tr low-Cr diopside (4 gr)	0	2	0	0	Tr	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 4 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende/epidote			
Q05	203	0	0	Tr (1 gr)	3	1 blue-grey	Tr Mn-epidote (1 gr) Tr low-Cr diopside (2 gr)	Tr (3 gr)	1	Tr	Tr	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 1 spinel 1 Mn-epidote 2 low-Cr diopside 3 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote		
Q06	108	0	0	0	1	1 grey	Tr low-Cr diopside (3 gr)	Tr (1 gr)	Tr	Tr	0	Tr	Tr	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	Tr	Hornblende-almandine/epidote-diopside-apatite assemblage.	0.25-0.5 mm fraction: 1 spinel 3 low-Cr diopside 1 red rutile	Hornblende-almandine/epidote-diopside apatite			
Q07	17	0	0	0	10	1 grey	Tr Mn-epidote (1 gr) Tr low-Cr diopside (6 gr)	0	1	Tr	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	Tr	Hornblende-almandine/epidote assemblage.	0.25-0.5 mm fraction: 1 spinel 1 Mn-epidote 6 low-Cr diopside	Hornblende-almandine/epidote				
Q08	156	0	0	0	5	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	Tr	Almandine-ilmenite/epidote assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 red rutile	Almandine-ilmenite/epidote				
Q09	96	0	0	0	25	1 blue-grey	Tr Mn-epidote (1 gr) Tr ruby corundum (1 gr) Tr low-Cr diopside (1 gr)	Tr (1 gr)	Tr	Tr	Tr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Almandine-goethite-hornblende-ilmenite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 spinel 1 Mn-epidote 1 ruby corundum 1 low-Cr diopside 1 red rutile 1 chromite (picked as KIM)	Almandine-goethite-hornblende-ilmenite-epidote-staurolite	
Q10	275	0	0	0	5	0	Tr low-Cr diopside (1 gr)	0	0	0	0	0	2	0	0.5	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	0	0	Hematite-augite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 2 chromite (picked as KIMs) 6 forsterite (see KIM data; picked as KIMs)	Hematite-augite/epidote-diopside			
Q11	58	0	0	0	2	0	Tr low-Cr diopside (3 gr)	0	1	Tr	Tr	10	0	0	10	Tr	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	Augite-hornblende-ilmenite/epidote-titanite-diopside assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside	Augite-hornblende-ilmenite/epidote-titanite-diopside		
Q12	97	0	0	0	Tr	0	Tr low-Cr diopside (13 gr)	Tr (1 gr)	0	0	0	0	0	0	0	15	Tr	0	0	0	0	0	0	0	0	0	0	0	0	30	Tr	Augite-ilmenite-fayalite/apatite-titanite-diopside assemblage. SEM check from 0.5-1.0 mm fraction: 1 chromite candidate = 1 chromite (chromite in plagioclase matrix).	0.5-1.0 mm fraction: 1 chromite (picked as KIM) 0.25-0.5 mm fraction: 13 low-Cr diopside 1 red rutile	Augite-ilmenite-fayalite/apatite-titanite-diopside	SEM check from 0.5-1.0 mm fraction: 1 chromite candidate = 1 chromite (chromite in plagioclase matrix).		
Q13	263	0	0	1 (1 gr)	0	0	0	0	1	3	1	0	0	0	5	Tr	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	Augite/diopside assemblage.	0.25-0.5 mm fraction: 3 forsterite (see KIM data; picked as KIMs)	Augite/diopside		
R02	253	0	3% barite (13 gr)	5 (-20 gr)	Tr	0	0	Tr (1 gr)	Tr	0	0	Tr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	Almandine-hornblende/epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 3 barite versus epidote candidates = 3 barite.	0.5-1.0 mm fraction: 3 barite 0.25-0.5 mm fraction: 13 barite 1 red rutile	Almandine-hornblende/epidote	SEM checks from 0.5-1.0 mm fraction: 3 barite versus epidote candidates = 3 barite.		

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm					Mg/Mn/Al/Cr Minerals 0.25-0.5 mm											Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks	
		>1 amp			<1.0 amp		>1.0 amp			0.8-1.0 amp				<0.8 amp				>1.0 amp						
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz						
R03	15	0	0	0	5	1 green gahnite	Tr low-Cr diopside (1 gr)	0	Tr	Tr	Tr	2	0	0	0	0	0	Tr (2 gr; see KIM data)	1	0	Almandine-hornblende-hematite/epidote-titanite assemblage. SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 1 gahnite and 1 diopside.	1 gahnite 1 diopside resembling gahnite 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote titanite	SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 1 gahnite and 1 diopside.
R04	199	0	0	0	3	0	Tr Mn-epidote (2 gr) Tr low-Cr diopside (2 gr)	Tr (1 gr)	Tr	Tr	0	0.5	0	0	0	0	0	Tr (1 gr; see KIM data)	5	Tr	Almandine-hornblende-hematite/epidote-diopside assemblage.	0.5-1.0 mm fraction: 1 red rutile 0.25-0.5 mm fraction: 2 Mn-epidote 2 low-Cr diopside 1 red rutile 1 chromite (picked as KIM)	Almandine-hornblende-hematite/epidote diopside	
R05	219	0	0	0	3	0	0	0	Tr	Tr	Tr	1	0	0	0	0	0	0	1	0	Almandine-hornblende/epidote-diopside assemblage.		Almandine-hornblende/epidote-diopside	
R06	164	0	0	Tr (3 gr)	5	0	0	0	2	Tr	Tr	2	0	0	Tr	Tr	Tr	Tr (1 gr; see KIM data)	5	0	Hornblende-almandine/epidote-titanite-diopside assemblage.	0.25-0.5 mm fraction: 1 chromite (picked as KIM)	Hornblende-almandine/epidote-titanite-diopside	
R07	134	0	0	0	Tr	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (5 gr)	Tr (3 gr)	Tr	Tr	Tr	1	0	0	Tr	Tr	Tr	Tr (4 gr; see KIM data)	2	Tr	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 Mn-epidote 5 low-Cr diopside 3 red rutile 4 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	
R08	24	0	0	0	1	0	0	0	Tr	Tr	0	0	1	0	0	Tr	0	0	8	0	Hornblende-almandine/epidote-diopside assemblage.		Hornblende-almandine/epidote-diopside	
R09	201	0	0	Tr (3 gr)	3	0	0	0	Tr	Tr	0	15	0	0	Tr	0	0	0	15	0	Almandine-hornblende/diopside-epidote-staurolite-apatite assemblage.		Almandine-hornblende/diopside-epidote-staurolite-apatite	
R10	151	0	0	0	20	0	Tr low-Cr diopside (1 gr)	0	0	0	0	20	Tr	Tr	5	Tr	Tr	Tr (1 gr; see KIM data)	Tr	Tr	Hematite-goethite-ilmenite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 chromite (picked as KIM)	Hematite-goethite-ilmenite/epidote-staurolite	
R11	213	0	0	7 (~1000 gr)	8	0	0	Tr (2 gr)	Tr	Tr	Tr	10	0	0	0	0	Tr (5 gr; see KIM data)	3	0	Almandine-hematite-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 2 red rutile 5 chromite (picked as KIMs)	Almandine-hematite-hornblende/epidote		
R12	194	0	0	0	0	0	Tr low-Cr diopside (1 gr)	0	Tr	Tr	0	1	0	30	Tr	Tr	Tr (1 gr; see KIM data)	60	0	Augite-fayalite/apatite-titanite assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 chromite (picked as KIM) 20 representative forsterite (see KIM data; picked as KIMs)	Augite-fayalite/apatite-titanite		
R13	192	0	0	0	0	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (3 gr)	0	Tr	Tr	0	Tr	0	30	Tr	0	0	0	70	0	Augite-fayalite-ilmenite/apatite-titanite assemblage. SEM check from 1.0-2.0 mm fraction: 1 Pb-metal candidate = 1 Pb-metal (contamination; bullet fragment).	1.0-2.0 mm fraction: 1 Pb-metal (contamination) 0.25-0.5 mm fraction: 1 Mn-epidote 3 low-Cr diopside 30 representative forsterite (see KIM data; picked as KIMs)	Augite-fayalite-ilmenite/apatite-titanite	SEM check from 1.0-2.0 mm fraction: 1 Pb-metal candidate = 1 Pb-metal (contamination bullet fragment).
R14	171	0	0	0	Tr	1 pale blue	Tr low-Cr diopside (1 gr)	0	Tr	Tr	0	Tr	0	10	Tr	0	0	0	20	0	Augite/diopside-apatite assemblage. SEM check from 1.0-2.0 mm fraction: 1 malachite candidate = 1 malachite.	1.0-2.0 mm fraction: 1 malachite 0.25-0.5 mm fraction: 1 spinel 1 low-Cr diopside	Augite/diopside-apatite	SEM check from 1.0-2.0 mm fraction: 1 malachite candidate = 1 malachite.
R15	74	0	0	0	0	0	Tr low-Cr diopside (1 gr)	0	0	Tr	Tr	0	0	Tr	0	0	0	0	1	0	Augite-ilmenite/diopside assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside	Augite-ilmenite/diopside	
S01	75	0	0	75 (~8000 gr)	Tr	0	Tr low-Cr diopside (2 gr)	0	Tr	Tr	Tr	2	0	0	0	0	0	0	2	0	Almandine-hornblende-siderite/pyrite assemblage. "Pyrite" is mostly marcasite.	0.25-0.5 mm fraction: 2 low-Cr diopside	Almandine-hornblende-siderite/pyrite	"Pyrite" is mostly marcasite.
S02	45	0	0	25 (~30 gr)	2	0	0	0	10	0	0	0	0	0	Tr	0	0	0	5	0	Almandine-hornblende/epidote-pyrite-titanite assemblage.		Almandine-hornblende/epidote-pyrite-titanite	

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp				>1.0 amp	
		% Cpy	Misc. Prime MMSiMs	Py	% Gth	# Grains + Colour	Misc. Prime MMSiMs	% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	Ap	Mz	Remarks	Picked Grains							
S03	112	0	Tr barite (4 gr)	60	1	1 grey	Tr low-Cr diopside (4 gr)	0	Tr	Tr	Tr	2	0	0	0	2	Tr	Almandine-hornblende/pyrite assemblage. SEM checks from 0.5-1.0 mm fraction: 2 barite versus siderite candidates = 2 barite. "Pyrite" is mostly marcasite.	1.0-2.0 mm fraction: 2 barite 0.5-1.0 mm fraction: 2 barite 0.25-0.5 mm fraction: 4 barite 1 spinel 4 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/pyrite	SEM checks from 0.5-1.0 mm fraction: 2 barite versus siderite candidates = 2 barite. "Pyrite" is mostly marcasite.						
S04	79	0	0	Tr (1 gr)	Tr	0	Tr low-Cr diopside (3 gr)	Tr (2 gr)	Tr	0.5	Tr	2	Tr	0	1	Tr (5 gr; see KIM data)	0.5	Tr	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside 2 red rutile 5 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside						
S05	89	Tr (1 gr)	0	0.2 (~20 gr)	7	1 green gahnite	Tr Mn-epidote (3 gr)	Tr (2 gr)	0.5	Tr	0.5	2	0	Tr	1	Tr (1 gr; see KIM data)	2	0	Almandine-hornblende/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite.	0.25-0.5 mm fraction: 1 chalcopyrite 1 gahnite 3 Mn-epidote 2 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside	SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite.					
S06	53	0	0	0	8	0	Tr low-Cr diopside (4 gr)	Tr (1 gr)	2	Tr	Tr	3	0	0	Tr	Tr (2 gr; see KIM data)	5	0	Almandine-hornblende/epidote-titanite-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 topaz candidate = 1 zoisite.	0.25-0.5 mm fraction: 1 zoisite resembling topaz 4 low-Cr diopside 1 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-titanite-diopside	SEM check from 0.25-0.5 mm fraction: 1 topaz candidate = 1 zoisite.					
S07	224	0	0	0	3	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (2 gr)	0	Tr	0	Tr	Tr	0	0	0	Tr (1 gr; see KIM data)	5	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 1 Mn-epidote 2 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende/epidote						
S08	81	0	0	0	Tr	0	0	Tr (1 gr)	1	Tr	Tr	Tr	0	0	0	Tr (2 gr; see KIM data)	1	0	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside						
S09	249	0	0	0	5	0	Tr low-Cr diopside (1 gr)	0	0.5	0	0	3	0	0	Tr	Tr (2 gr; see KIM data)	3	0	Almandine-hornblende/epidote-diopside-titanite assemblage. SEM check from 0.25-0.5 mm fraction: 1 topaz versus zoisite candidate = 1 zoisite.	0.25-0.5 mm fraction: 1 zoisite resembling topaz 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside-titanite	SEM check from 0.25-0.5 mm fraction: 1 topaz versus zoisite candidate = 1 zoisite.					
S10	55	0	0	0	2	1 green gahnite	Tr low-Cr diopside (1 gr)	0	0	Tr	0	15	0	0	0	Tr (2 gr; see KIM data)	6	0	Almandine-augite-hornblende/epidote-staurolite assemblage. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite.	0.25-0.5 mm fraction: 1 gahnite 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-augite-hornblende/epidote-staurolite	SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite.					
S11	84	0	0	Tr (1 gr)	5	0	Tr low-Cr diopside (2 gr)	0	0	Tr	Tr	10	0.5	0	0	Tr (1 gr; see KIM data)	Tr	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende/epidote						
S12	116	0	0	0	Tr	0	Tr low-Cr diopside (2 gr)	0	0	Tr	0	2	Tr	0	Tr	Tr (1 gr; see KIM data)	1	0	Augite-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside 1 chromite (picked as KIM)	Augite-hornblende/epidote-diopside						
S13	146	0	0	0	0	0	Tr low-Cr diopside (1 gr)	0	3	0	0	0	0	50	0	Tr (1 gr; see KIM data)	50	0	Fayalite-augite-ilmenite/apatite-zircon assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 chromite (picked as KIM)	Fayalite-augite-ilmenite/apatite-zircon						
S14	80	0	0	0	0	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (3 gr)	0	Tr	0	0	Tr	0	20	0	0	1	0	Augite-ilmenite-fayalite/diopsidite-titanite assemblage. SEM checks from 0.25-0.5 mm fraction: 2 pale green cryptocrystalline Cr-andradite versus epidote candidates = 2 epidote	0.25-0.5 mm fraction: 1 Mn-epidote 2 epidote resembling Cr-andradite 3 low-Cr diopside	Augite-ilmenite-fayalite/diopsidite-titanite	SEM checks from 0.25-0.5 mm fraction: 2 pale green cryptocrystalline Cr-andradite versus epidote candidates = 2 epidote					

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp						>1.0 amp	
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour	Misc. Prime MMSIMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	Ap	Mz											
S15	187	0	0	1 (2 gr)	0	0	1% low-Cr diopside (3 gr)	0	0	Tr	0	0	0	0	0	5	0	Tr (1 gr; see KIM data)	5	0	Augite/epidote assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside	Augite/diopside-apatite						
S16	256	0	0	1 (2 gr)	0	0	0	0	Tr	0	0	0	0	0	5	0	0	Tr (1 gr; see KIM data)	5	0	Augite/epidote assemblage.	0.5-1.0 mm fraction: 1 forsterite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 1 chromite (picked as KIM) 5 forsterite (see KIM data; picked as KIMs)	Augite/epidote						
T01	71	0	0	Tr (6 gr)	0.5	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (5 gr)	Tr (2 gr)	4	Tr	Tr	Tr	2	Tr	0	3	0	2	0	Almandine-hornblende/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 4 orange spessartine versus almandine candidates = 3 spessartine and 1 almandine.	0.25-0.5 mm fraction: 1 Mn-epidote 5 low-Cr diopside 2 red rutile 3 representative spessartine 1 almandine resembling spessartine	Almandine-hornblende/epidote-diopside	SEM checks from 0.25-0.5 mm fraction: 4 orange spessartine versus almandine candidates = 3 spessartine and 1 almandine.						
T02	144	0	5% barite (~300 gr)	10 (~600 gr)	3	0	Tr low-Cr diopside (1 gr)	0	Tr	Tr	Tr	Tr	0	0	0	Tr (1 gr; see KIM data)	1	0	Almandine-hornblende-hematite/epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus clinopyroxene candidate = 1 augite. 0.5-1.0 mm fraction contains 5% (~50 grains) barite.	1.0-2.0 mm fraction: 3 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 20 representative barite 1 augite resembling gahnite 1 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende-hematite/epidote	SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus clinopyroxene candidate = 1 augite. 0.5-1.0 mm fraction contains 5% (~50 grains) barite.							
T03	254	0	5% barite (~200 gr)	Tr (8 gr)	4	1 blue	Tr low-Cr diopside (3 gr)	Tr (1 gr)	Tr	Tr	Tr	1	0	0	0	Tr (2 gr; see KIM data)	3	0	Almandine-hornblende/epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue gahnite versus spinel candidate = 1 spinel. 1.0 mm fraction contains 5% (~120 grains) barite.	1.0-2.0 mm fraction: 12 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 20 representative barite 1 spinel 3 low-Cr diopside 1 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende/epidote	SEM check from 0.25-0.5 mm fraction: 1 blue gahnite versus spinel candidate = 1 spinel. 0.5-1.0 mm fraction contains 5% (~120 grains) barite.							
T04	265	Tr (5 gr)	0	0	3	1 pale blue	Tr low-Cr diopside (1 gr)	Tr (2 gr)	Tr	0	0.5	Tr	0	Tr	0	0	10	Tr	Almandine-hematite-hornblende/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 monazite versus bastnaesite candidate = 1 monazite.	0.25-0.5 mm fraction: 5 chalcopyrite 1 spinel 1 low-Cr diopside 2 red rutile 1 monazite	Almandine-hematite-hornblende/epidote diopside	SEM check from 0.25-0.5 mm fraction: 1 monazite versus bastnaesite candidate = 1 monazite.							
T05	88	0	0	0	Tr	0	Tr low-Cr diopside (5 gr)	Tr (1 gr)	1	Tr	Tr	1	0	0	Tr	Tr (4 gr; see KIM data)	3	0	Almandine-hornblende/epidote-titanite assemblage.	0.25-0.5 mm fraction: 5 low-Cr diopside 1 red rutile 4 chromite (picked as KIMs)	Almandine-hornblende/epidote-titanite								
T06	140	0	Tr barite (1 gr)	0	0.5	1 blue-green gahnite	Tr low-Cr diopside (7 gr)	Tr (5 gr)	Tr	Tr	0.5	2	0	0	Tr	Tr (11 gr; see KIM data)	2	0	Almandine-hornblende/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 gahnite.	0.25-0.5 mm fraction: 1 barite 1 gahnite 7 low-Cr diopside 5 red rutile 11 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 gahnite.							
T07	117	0	0	0	2	2 grey-blue, pale purple	Tr low-Cr diopside (6 gr)	Tr (1 gr)	Tr	Tr	Tr	2	Tr	0	Tr	Tr (5 gr; see KIM data)	1	Tr	Almandine-hornblende-hematite/epidote-diopside-titanite assemblage.	0.25-0.5 mm fraction: 2 spinel 6 low-Cr diopside 1 red rutile 5 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote diopside-titanite								
T08	85	0	0	0	1	0	0	Tr (1 gr)	Tr	0	0	2	0	0	Tr	0	2	Tr	Hornblende-almandine/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 red rutile	Hornblende-almandine/epidote-diopside								
T09	67	0	0	40 (~1500 gr)	0	0	0	0	Tr	0	0	Tr	0	0	0	0	1	0	Almandine-hornblende-siderite/pyrite- diopside-epidote assemblage. "Pyrite" is mostly marcasite.		Almandine-hornblende-siderite/pyrite- diopside-epidote	"Pyrite" is mostly marcasite.							
T10	27	0	0	Tr (5 gr)	0	1 grey	0	0	Tr	0	0	Tr	0	0	0	0	8	0	Hornblende/diopside assemblage.	0.25-0.5 mm fraction: 1 spinel	Hornblende/diopside								
T11	33	0	0	0	50	0	0	0	0	0	0	60	0	0	0	0	Tr	Tr	Goethite-almandine/staurolite-epidote assemblage.		Goethite-almandine/staurolite-epidote								

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp						>1.0 amp	
		% Cpy	Misc. MMSIMs	Prime Py Tr (5 gr)	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	Ap	Mz											
T11-2	260	0	0	0	8	0	0	0	0	0	0	0	0	0	0	2	Tr	Almandine-hematite-augite-hornblende/diopside-epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 6 monazite versus bastnaesite candidates = 6 monazite.	1 chromite (picked as KIM) 6 monazite resembling bastnaesite	Almandine-hematite-augite-hornblende/diopside-epidote	SEM checks from 0.25-0.5 mm fraction: 6 monazite versus bastnaesite candidates = 6 monazite.								
T12	216	0	0	0	0	0	0	Tr	Tr	0	5	0	0	Tr	2	Tr	Almandine-hornblende-hematite/diopside-epidote assemblage.	0.25-0.5 mm fraction: 6 chromite (picked as KIMs)	Almandine-hornblende-hematite/diopside-epidote										
T14	208	0	0	0	0	0	Tr low-Cr diopside (~40 gr)	0	Tr	0	0	Tr	0	4	Tr	0	10	0	Augite-hornblende/diopside-titanite assemblage	0.5-1.0 mm fraction: 3 low-Cr diopside 1 red rutile 0.25-0.5 mm fraction: 20 representative low-Cr diopside	Augite-hornblende/diopside-titanite								
T15	59	0	0	0	0	0	0	0	Tr	0	0	0	0	60	0	0	25	0	Fayalite-ilmenite-augite/diopside-apatite assemblage. SEM checks from 0.25-0.5 mm fraction: 5 apatite (major nonparamagnetic assemblage mineral) candidates = 5 apatite.	0.25-0.5 mm fraction: 5 representative apatite	Fayalite-ilmenite-augite/diopside-apatite	SEM checks from 0.25-0.5 mm fraction: 5 apatite (major nonparamagnetic assemblage mineral) candidates = 5 apatite.							
T16	25	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	Tr	0	Augite-fayalite/epidote assemblage.	0.25-0.5 mm fraction: 7 forsterite (see KIM data; picked as KIMs)	Augite-fayalite/epidote								
U02	235	0	0	0.2 (~40 gr)	2	0	Tr low-Cr diopside (1 gr)	0	Tr	Tr	Tr	2	0	0	Tr	Tr	4	0	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside								
U03	191	0	0	0.1 (5 gr)	2	0	Tr low-Cr diopside (1 gr)	0	Tr	Tr	Tr	5	0	0	Tr	Tr	5	0	Almandine-hornblende-ilmenite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende-ilmenite/epidote-diopside								
U04	83	0	15% barite (~1500 gr)	0	0	1 pale blue	Tr low-Cr diopside (5 gr)	Tr (1 gr)	Tr	Tr	Tr	1	0	0	0	Tr	5	Tr	Almandine-hornblende/epidote-barite assemblage. SEM checks from 0.25-0.5 mm fraction: 3 barite (major nonparamagnetic assemblage mineral) versus epidote candidates = 3 barite. 0.5-1.0 mm fraction contains 10% (80 grains) barite.	1.0-2.0 mm fraction: 4 barite 0.5-1.0 mm fraction: 20 representative barite 0.25-0.5 mm fraction: 15 representative barite 1 spinel 5 low-Cr diopside 1 red rutile 5 chromite (picked as KIMs)	Almandine-hornblende/epidote-barite	SEM checks from 0.25-0.5 mm fraction: 3 barite (major nonparamagnetic assemblage mineral) versus epidote candidates = 3 barite. 0.5-1.0 mm fraction contains 10% (80 grains) barite.							
U05	54	0	0	Tr (~15 gr)	4	0	Tr sapphire corundum (1 gr)	0	1	Tr	Tr	Tr	0	0	Tr	Tr	10	Tr	Hornblende-almandine/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 sapphire corundum 4 chromite (picked as KIMs)	Hornblende-almandine/epidote-diopside								
U08	234	0	0	70 (~4000 gr)	1	0	0	0	Tr	Tr	Tr	2	0	0	1	0	Tr	0	Siderite-hornblende-almandine/marcasite assemblage. "Pyrite" is mainly marcasite.		Siderite-hornblende-almandine/marcasite	"Pyrite" is mainly marcasite.							
U09	31	0	0	Tr (1 gr)	Tr	0	0	Tr (1 gr)	Tr	Tr	0	Tr	0	0	Tr	Tr	4	0	Almandine-hornblende/diopside-titanite-epidote assemblage.	0.25-0.5 mm fraction: 1 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/diopside-titanite-epidote								
U10	135	0	0	0	1	0	Tr Mn-epidote (4 gr)	Tr (2 gr)	0	Tr	Tr	20	0	0.5	Tr	0	10	0	Hornblende-almandine-augite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 4 Mn-epidote 2 red rutile	Hornblende-almandine-augite/epidote-staurolite								
U11	205	0	0	Tr (3 gr)	Tr	0	0	0	Tr	Tr	0	2	0	0	0	0	15	Tr	Almandine-hornblende/epidote-diopside-apatite assemblage. Picked 1 pristine 175 x 400 x 500µ gold grain from 0.25-0.5 mm fraction.	0.25-0.5 mm fraction: 1 gold grain	Almandine-hornblende/epidote-diopside-apatite	Picked 1 pristine 175 x 400 x 500µ gold grain from 0.25-0.5 mm fraction.							
V02	70	0	0	Tr (5 gr)	2	0	Tr corundum (1 gr) Tr low-Cr diopside (1 gr)	Tr (1 gr)	3	0	Tr	3	0	0	Tr	0	10	Tr	Almandine-hornblende/epidote-diopside assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 1 corundum 1 low-Cr diopside 1 red rutile	Almandine-hornblende/epidote-diopside								

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm														Mg/Mn/Al/Cr Minerals 0.25-0.5 mm				Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks
		>1 amp				<1.0 amp				>1.0 amp				0.8-1.0 amp		<0.8 amp		>1.0 amp							
		% Cpy	Misc. Prime MMSIMs	% Py Tr (2 gr)	% Gth Tr	% # Grains + Colour Spinel	Misc. Prime MMSIMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr (6 gr; see KIM data)	% Ap	% Mz							
V03	231	0	0	Tr (2 gr)	Tr	1 pink	0	0	Tr	0	Tr	Tr	Tr	Tr	Tr	4	0	Hornblende-almandine/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 spinel 6 chromite (picked as KIMs)	Hornblende-almandine/epidote-diopside					
V04	50	0	0	Tr (3 gr)	2	1 grey	Tr dumortierite (1 gr)	Tr (3 gr)	3	Tr	0	3	0	0	Tr	Tr (1 gr; see KIM data)	0	Almandine-hornblende/epidote-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 1 blue-purple sapphire corundum versus kyanite candidate = 1 dumortierite (Al7(BO3)(SiO4)3O3).	0.25-0.5 mm fraction: 1 spinel 1 dumortierite 3 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside	SEM checks from 0.25-0.5 mm fraction: 1 blue-purple sapphire corundum versus kyanite candidate = 1 dumortierite (Al1BSi3O18).				
V06	227	0	Tr barite (4 gr)	Tr (8 gr)	2	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	0.5	Tr	0	Tr	0	0	Tr	Tr (2 gr; see KIM data)	0	Almandine-hornblende/epidote-diopside assemblage. SEM checks from 0.5-1.0 mm fraction: 3 barite versus apatite candidates = 3 barite.	1.0-2.0 mm fraction: 1 barite 0.5-1.0 mm fraction: 4 barite 1 low-Cr diopside 0.25-0.5 mm fraction: 4 barite 1 low-Cr diopside 1 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside	SEM checks from 0.5-1.0 mm fraction: 3 barite versus apatite candidates = 3 barite.				
V07	36	0	0	0.2 (~15 gr)	2	0	Tr low-Cr diopside (1 gr)	0	Tr	Tr	Tr	Tr	0	0	Tr	Tr (2 gr; see KIM data)	Tr	Almandine-hornblende/epidote-diopside-titanite assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside-titanite					
V08	238	0	0	0	5	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	Tr	0	Tr	1	0	0	2	0	5	Hornblende-almandine/epidote assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 1 red rutile	Hornblende-almandine/epidote					
V09	178	Tr (1 gr)	Tr arsenopyrite (7 gr)	0.2 (~40 gr)	Tr	2 pale blue, pale blue-green	Tr ruby corundum (1 gr)	0	Tr	Tr	0	2	0	0	0	0	20	0	Hornblende-almandine/epidote-diopside-apatite assemblage. SEM check from 0.25-0.5 mm fraction: 1 ruby corundum candidate = 1 ruby corundum.	0.25-0.5 mm fraction: 1 chalcopyrite 7 arsenopyrite 2 spinel 1 ruby corundum	Hornblende-almandine/epidote-diopside-apatite	SEM check from 0.25-0.5 mm fraction: 1 ruby corundum candidate = 1 ruby corundum			
W02	104	0	0	Tr (2 gr)	1	0	0	0	0	Tr	Tr	0.5	0	0	0	Tr (5 gr; see KIM data)	6	Tr	Hornblende-almandine/epidote-titanite assemblage.	0.25-0.5 mm fraction: 5 chromite (picked as KIMs)	Hornblende-almandine/epidote-titanite				
W03	102	0	Tr barite (12 gr)	Tr (3 gr)	2	1 green gahnite; 1 pale blue spinel	Tr low-Cr diopside (2 gr)	0	Tr	0	Tr	2	0	0	0	0	12	0	Hornblende-almandine/epidote-titanite assemblage. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus diopside candidate = 1 gahnite.	0.5-1.0 mm fraction: 6 barite 0.25-0.5 mm fraction: 12 barite 1 gahnite 1 spinel 2 low-Cr diopside	Hornblende-almandine/epidote-titanite	SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus diopside candidate = 1 gahnite.			
W04	175	0	0	Tr (2 gr)	5	0	Tr low-Cr diopside (2 gr)	0	1	0.5	Tr	3	0	0	Tr	0	3	Tr	Hornblende-almandine/epidote-titanite-diopside assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside	Hornblende-almandine/epidote-titanite-diopside				
W05	100	0	0	0	1	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (5 gr)	Tr (1 gr)	Tr	Tr	0	0	1	Tr	0	1	Tr (2 gr; see KIM data)	1	Tr	Almandine-hornblende/epidote-titanite assemblage. SEM checks from 0.25-0.5 mm fraction: 1 blue-green clinopyroxene versus sapphirine candidate = 1 diopside (with minor omphacite component); and 2 orange spessartine candidates = 2 spessartine.	0.25-0.5 mm fraction: 1 diopside resembling sapphirine 1 Mn-epidote 5 low-Cr diopside 1 red rutile 2 representative spessartine 2 chromite (picked as KIMs)	Almandine-hornblende/epidote-titanite	SEM checks from 0.25-0.5 mm fraction: 1 blue-green clinopyroxene versus sapphirine candidate = 1 diopside (with minor omphacite component); and 2 orange spessartine candidates = 2 spessartine.		
W06	196	0	0	Tr (1 gr)	5	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (2 gr)	0	1	Tr	Tr	3	0	0	1	0	3	0	Hornblende-almandine/epidote-titanite-apatite assemblage.	0.25-0.5 mm fraction: 1 Mn-epidote 2 low-Cr diopside	Hornblende-almandine/epidote-titanite-apatite				
X01	43	0	0	Tr (1 gr)	0.5	0	Tr Mn-epidote (1 gr) Tr low-Cr diopside (4 gr)	0	0.5	0	0	2	0	0	0	0	25	0	Hornblende-almandine/epidote-apatite-titanite assemblage.	0.25-0.5 mm fraction: 1 Mn-epidote 4 low-Cr diopside	Hornblende-almandine/epidote-apatite-titanite				

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp				>1.0 amp	
		% Cpy	Misc. Prime MMSIMs	% Py Tr	% Gth	% Tr	# Grains + Colour	% Spinel	Misc. Prime MMSIMs	% Red	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz	Remarks	Picked Grains				
X02	243	0	0	Tr (~10 gr)	Tr	0	0	Tr Mn-epidote (2 gr) Tr low-Cr diopside (1 gr)	0	0	Tr	0	Tr	3	0	0	2	0	4	0	Hornblende-almandine/epidote-titanite assemblage.	0.25-0.5 mm fraction: 2 Mn-epidote 1 low-Cr diopside	Hornblende-almandine/epidote-titanite				
X03	274	0	0	Tr (4 gr)	3	0	0	0	Tr	0	Tr	1	0	0	0	0	0	1	Tr	Tr	Hornblende-hematite-almandine/epidote assemblage.		Hornblende-hematite-almandine/epidote				
X04	110	0	0	0	3	1 blue-green gahnite	0	Tr (2 gr)	Tr	0	0	2	Tr	0	Tr	Tr	Tr	1	Tr	Tr	Almandine-hornblende-hematite/epidote-titanite diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 gahnite Hornblende-almandine/epidote-titanite versus clinopyroxene candidate = 1 gahnite.	0.25-0.5 mm fraction: 1 gahnite 2 red rutile 2 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote titanite-diopside	SEM check from 0.25-0.5 mm fraction: 1 dark blue-green hercynite versus clinopyroxene candidate = 1 gahnite.			
X05	244	0	0	0	5	0	Tr low-Cr diopside (3 gr)	0	Tr	Tr	Tr	1	0	0	0.5	0	0	7	0	0	Hornblende-almandine/epidote-titanite assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside	Hornblende-almandine/epidote-titanite				
Y05	42	0	0	Tr (1 gr)	Tr	0	0	0	0	Tr	Tr	1	0	Tr	Tr	Tr	Tr	2	0	0	Almandine-hornblende/epidote-diopside assemblage.	0.25-0.5 mm fraction: 3 chromite (picked as KIMs)	Almandine-hornblende/epidote-diopside				
Z01	109	0	0	0	Tr	0	Tr low-Cr diopside (6 gr)	0	Tr	0	Tr	2	0	0	8	0	0	10	Tr	Tr	Hornblende-almandine/epidote-titanite assemblage.	0.5-1.0 mm fraction: 2 low-Cr diopside 0.25-0.5 mm fraction: 6 low-Cr diopside	Hornblende-almandine/epidote-titanite				
Z02	160	0	0	2 (~200 gr)	3	0	0	0	0	Tr	Tr	1	0	0	Tr	Tr	Tr	Tr	0	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 2 chromite (picked as KIMs)	Almandine-hornblende/epidote				
Z03	223	0	0	0.2 (~15 gr)	Tr	0	Tr low-Cr diopside (9 gr)	0	0	0	Tr	Tr	0	0	3	0	0	Tr	0	0	Almandine-hornblende/epidote-diopside assemblage.	0.5-1.0 mm fraction: 6 low-Cr diopside 0.25-0.5 mm fraction: 9 low-Cr diopside	Almandine-hornblende/epidote-diopside				
Z04	141	0	0	Tr (2 gr)	1	0	Tr low-Cr diopside (7 gr)	0	Tr	0	0	1	0	0	5	Tr	Tr	2	0	0	Almandine-augite-hornblende/diopside assemblage.	0.25-0.5 mm fraction: 7 low-Cr diopside 1 chromite (picked as KIM)	Almandine-augite-hornblende/diopside				
Z05	161	Tr (1 gr)	0	Tr (1 gr)	0	0	1% low-Cr diopside (~150 gr)	0	2	1	0	40	0	0	5	Tr	Tr	5	0	0	Almandine-hornblende-augite/diopside-staurolite assemblage. SEM check from 0.5-1.0 mm fraction: 1 low-Cr diopside + enstatite candidate = 1 low-Cr diopside + bronzite. Coarsest low-Cr diopside occurs mainly in biminerallitic lithic grains with bronzite (i.e. websterite).	1.0-2.0 mm fraction: 6 low-Cr diopside + bronzite 0.5-1.0 mm fraction: 26 low-Cr diopside ± bronzite 0.25-0.5 mm fraction: 1 chalcopyrite 50 representative low-Cr diopside 1 chromite (picked as KIM)	Almandine-hornblende-augite/diopside-staurolite	SEM check from 0.5-1.0 mm fraction: 1 low-Cr diopside + enstatite candidate = 1 low-Cr diopside + bronzite. Coarsest low-Cr diopside occurs mainly in biminerallitic lithic grains with bronzite (i.e. websterite).			
Z06	176	0	0	0	5	0	Tr low-Cr diopside (3 gr)	0	0	Tr	Tr	2	0	0	Tr	Tr	Tr	0	0	0	Almandine-hematite-augite/diopside assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside 2 chromite (picked as KIMs)	Almandine-hematite-augite/diopside				
Z07	63	Tr (1 gr)	0	Tr (2 gr)	Tr	2 pale grey	Tr Mn-epidote (2 gr) Tr low-Cr diopside (29 gr)	Tr (1 gr)	Tr	0	Tr	Tr	0	0	10	Tr	Tr	2	0	0	Hornblende-augite-almandine/diopside-epidote assemblage.	0.5-1.0 mm fraction: 1 low-Cr diopside 0.25-0.5 mm fraction: 1 chalcopyrite 2 spinel 2 Mn-epidote 29 low-Cr diopside 1 red rutile 5 chromite (picked as KIMs)	Hornblende-augite-almandine/diopside-epidote				

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks		
		>1 amp					<1.0 amp					>1.0 amp					0.8-1.0 amp					<0.8 amp						>1.0 amp	
		% Cpy	Misc. Prime MMSiMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSiMs	% Red	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz											
Z08	258	0	0	0	0	2 pale blue	Tr sapphirine (2 gr) Tr ruby corundum (4 gr) Tr sapphire corundum (1 gr) Tr low-Cr diopside (~200 gr)	Tr (17 gr)	0	0	Tr	Tr	0	Tr	15	0	2	0	Orthopyroxene-augite-hornblende/almadine-augite-orthopyroxene/diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 3 sapphirine versus sapphire corundum candidates = 2 sapphirine and 1 sapphire corundum; and 2 ruby corundum versus almandine candidates = 2 ruby corundum.	1.0-2.0 mm fraction: 1 low-Cr diopside 0.5-1.0 mm fraction: 16 low-Cr diopside 1 forsterite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 2 spinel 2 sapphirine 4 ruby corundum 1 sapphire corundum 30 representative low-Cr diopside 17 red rutile 25 representative forsterite (see KIM data; picked as KIMs)	Hornblende-almadine-augite-orthopyroxene/diopside	SEM checks from 0.25-0.5 mm fraction: 3 sapphirine versus sapphire corundum candidates = 2 sapphirine and 1 sapphire corundum; and 2 ruby corundum versus almandine candidates = 2 ruby corundum.							
Z09	239	Tr (3 gr)	0.4 (~200 gr) millerite ± gaspeite	0.2 (~100 gr)	0	4 pale blue, grey, green	0.5% low-Cr diopside (~250 gr)	Tr (2 gr)	0	0	0	0	0	0	40	Tr (5 gr; see KIM data)	0	0	Orthopyroxene-augite-hornblende/diopside assemblage. SEM checks from 1.0-2.0 mm fraction: 2 pyrrhotite versus pentlandite candidates = 2 millerite (NIS); 1 green alteration mineral = 1 gaspeite (Ni,Mg,Fe)CO ₃ + calcite; and 1 dark green gahnite versus spinel candidate = 1 spinel. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 spinel. 1.0-2.0 mm fraction contains 20 unpicked millerite ± gaspeite, 0.5-1.0 mm fraction contains ~200 unpicked millerite ± gaspeite and 0.25-0.5 mm fraction contains ~5 unpicked slag (contamination).	1.0-2.0 mm fraction: 4 chalcopyrite within gabbro fragments 33 representative millerite 31 representative gaspeite 1 spinel 1 low-Cr diopside 1 slag (contamination) 0.5-1.0 mm fraction: 1 chalcopyrite 50 representative millerite ± gaspeite 24 low-Cr diopside 6 forsterite (see KIM data; picked as KIMs) 6 slag (contamination) 0.25-0.5 mm fraction: 3 chalcopyrite 20 representative millerite ± gaspeite 4 spinel 40 representative low-Cr diopside 2 red rutile 2 representative chromite (picked as KIMs) 10 representative forsterite (see KIM data; picked as KIMs) 2 representative slag 0.25-0.5 mm fraction: 3 spinel 1 uvarovite (see KIM notes) 8 low-Cr diopside 3 red rutile 3 chromite (picked as KIMs) 0.5-1.0 mm fraction: 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 1 low-Cr diopside 1 red rutile 1 chromite (picked as KIM) 0.25-0.5 mm fraction: 2 barite 2 low-Cr diopside 1 red rutile 2 chromite (picked as KIMs)	Orthopyroxene-augite-hornblende/diopside	SEM checks from 1.0-2.0 mm fraction: 2 pyrrhotite versus pentlandite candidates = 2 millerite (NIS); 1 green alteration mineral = 1 gaspeite (Ni,Mg,Fe)CO ₃ + calcite; and 1 dark green gahnite versus spinel candidate = 1 spinel. SEM check from 0.25-0.5 mm fraction contains 20 unpicked millerite ± gaspeite, 0.5-1.0 mm fraction contains ~200 unpicked millerite ± gaspeite and 0.25-0.5 mm fraction contains ~5 unpicked slag (contamination).							
Z10	26	0	0	Tr (6 gr)	0.5	3 pink, blue-green	Tr uvarovite (1 gr) Tr low-Cr diopside (8 gr)	Tr (3 gr)	1	Tr	0	3	0	0	Tr	Tr (3 gr; see KIM data)	10	0	Almandine-hornblende-hematite/epidote-diopside assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.	0.25-0.5 mm fraction: 3 spinel 1 uvarovite (see KIM notes) 8 low-Cr diopside 3 red rutile 3 chromite (picked as KIMs)	Almandine-hornblende-hematite/epidote diopside	SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.							
Z11	262	0	0	0	0	0	Tr low-Cr diopside (1 gr)	Tr (1 gr)	0	Tr	Tr	4	0	0	0	Tr (1 gr; see KIM data)	1	0	Almandine-hornblende/epidote-diopside assemblage.	0.5-1.0 mm fraction: 1 chromite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 1 low-Cr diopside 1 red rutile 1 chromite (picked as KIM)	Almandine-hornblende/epidote-diopside								
Z12	76	0	Tr barite (2 gr)	Tr (3 gr)	Tr	0	Tr low-Cr diopside (2 gr)	Tr (1 gr)	0	Tr	Tr	Tr	0	0	0	Tr (2 gr; see KIM data)	2	0	Augite-almadine-hematite/epidote assemblage.	0.25-0.5 mm fraction: 2 barite 2 low-Cr diopside 1 red rutile 2 chromite (picked as KIMs)	Augite-almadine-hematite/epidote								

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Field Number	Lab Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm					Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates		Remarks	Picked Grains	INPUT Assemblage	INPUT Remarks	
		>1 amp		<1.0 amp			>1.0 amp		0.8-1.0 amp			<0.8 amp		>1.0 amp									
		% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Fay	% Opx	% Cr	% Ap	% Mz					
Z13	159	0	0	0	Tr	2 pale blue	0	Tr	Tr	Tr	0	3	0	0	Tr	0	2	0	Almandine-hornblende/epidote assemblage.	0.25-0.5 mm fraction: 2 spinel 25 representative red rutile	Almandine-hornblende/epidote		
Z14	52	0	0	0	0	1 pale purple	Tr Mn-epidote (2 gr)	0	1	1	Tr	10	0	0	Tr	Tr (5 gr; see KIM data)	2	0	Hornblende-almandine/epidote assemblage.	0.5-1.0 mm fraction: 1 spinel 2 Mn-epidote 5 chromite (picked as KIMs)	Hornblende-almandine/epidote		
Z15	30	Tr (6 gr)	0	Tr (15 gr)	Tr	0	Tr Mn-epidote (1 gr)	Tr (1 gr)	Tr	0	Tr	1	0	0	Tr	Tr (3 gr; see KIM data)	10	0	Hornblende-hematite-almandine/epidote-diopside assemblage.	0.5-1.0 mm fraction: 1 forsterite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 6 chalcopyrite 1 Mn-epidote 1 red rutile 3 chromite (picked as KIMs)	Hornblende-hematite-almandine/epidote diopside		
Z16	214	Tr (1 gr)	0	Tr (5 gr)	Tr	0	Tr low-Cr diopside (8 gr)	0	0.5	0	Tr	Tr	0	Tr	1	0	2	0	Hornblende-almandine-augite/epidote-diopside assemblage.	0.25-0.5 mm fraction: 1 chalcopyrite 8 low-Cr diopside	Hornblende-almandine-augite/epidote-diopside		
Z17	252	Tr (1 gr)	0	Tr (~20 gr)	Tr	0	Tr low-Cr diopside (3 gr)	0	Tr	0	0	Tr	0	0	Tr	0	Tr	0	Hornblende-almandine/epidote-diopside assemblage.	0.5-1.0 mm fraction: 2 chalcopyrite 0.25-0.5 mm fraction: 1 chalcopyrite 3 low-Cr diopside	Hornblende-almandine/epidote-diopside		
Z18	69	0	80% barite (~800 gr)	0	0	0	Tr low-Cr diopside (1 gr)	0	0	1	0	0	0	5	0	0	Tr	0	Augite/barite assemblage.	0.5-1.0 mm fraction: 14 barite 0.25-0.5 mm fraction: 25 representative barite 1 low-Cr diopside	Augite/barite		
Z19	122	0	0	0	0	0	0	Tr (1 gr)	0	Tr	Tr	Tr	0	10	0	0	60	0	Augite/apatite-diopside assemblage.	0.25-0.5 mm fraction: 1 red rutile	Augite/apatite-diopside		
Z20	115	0	0	0	0	0	0	0	0	0	0	Tr	0	10	0	0	5	Tr	Augite/diopside assemblage.		Augite/diopside		
96TCA18	114	0	0	Tr (5 gr)	0	1 grey-green	0.3% low-Cr diopside (63 gr)	Tr (5 gr)	Tr	1	Tr	0	2	0	0	Tr	Tr (17 gr; see KIM data)	1	0	Almandine-hornblende-augite/epidote-diopside assemblage. SEM check from 1.0-2.0 mm fraction: 1 beige sphalerite versus titanite candidate = 1 sphalerite.	1.0-2.0 mm fraction: 1 sphalerite 1 forsterite (see KIM data; picked as KIM) 0.5-1.0 mm fraction: 5 low-Cr diopside 14 forsterite (see KIM data; picked as KIMs) 0.25-0.5 mm fraction: 1 spinel 63 low-Cr diopside 5 red rutile 17 chromite (picked as KIMs) 49 forsterite (see KIM data; picked as KIMs)	Almandine-hornblende-augite/epidote-diopside	SEM check from 1.0-2.0 mm fraction: 1 beige sphalerite versus titanite candidate = 1 sphalerite.
96TCA19	197	Tr (1 gr)	0	Tr (8 gr)	Tr	1 pale blue	Tr low-Cr diopside (88 gr)	0	Tr	0	0	1	0	0	Tr	Tr (13 gr; see KIM data)	Tr	0	Almandine-hornblende/epidote assemblage.	0.5-1.0 mm fraction: 1 sphalerite (see KIM notes) 10 low-Cr diopside 9 forsterite (see KIM data; picked as KIMs) 0.25-0.5 mm fraction: 1 chalcopyrite 1 spinel 88 low-Cr diopside 13 chromite (picked as KIMs) 26 forsterite (see KIM data; picked as KIMs)	Almandine-hornblende/epidote		

Appendix. Indicator mineral visual and SEM counts

Field no	Lab no	Spinel	Gahnite	Chondro	Corund	Cr-garnet	Dumort	Mn-epidote	Sapphir	Topaz	Red rut	Kyanite%	Sill%	Tm%	St%	Sps%	Fay%	Opx%	Ap%	Mz%
A02	168	1	0	0	0	0	0	1	0	0	2	5	0.1	0.1	8	0	0	0.1	2	0
A03	68	0	0	0	0	0	0	0	0	0	0	2	0.1	0.1	4	0	0	0	1	0
A04	35	0	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	0.1	0	0	0	5	0
A05	38	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	3	0	0	0.1	2	0.1
A06	209	0	0	0	0	0	0	0	0	0	1	0.1	3	0.1	0.1	0	0	0	0.1	0
A07	255	3	1	0	0	0	0	0	0	0	1	1	2	0.1	2	0	0	0	1	0
A08	119	4	1	0	0	0	0	0	0	0	2	2	0.1	0.1	3	0	0	0	0.1	0
A09	241	3	0	0	0	0	0	0	0	0	2	0.1	0.1	0.1	7	0	0	0.1	5	0.1
A10	133	2	1	0	0	0	0	0	0	0	0	0.1	0.1	0.1	25	0	0	0	2	0
A11	5	3	1	0	0	0	0	0	0	0	2	0.1	0.1	5	45	0	0	0	2	0
A12	126	1	0	0	0	0	0	0	0	0	0	1	0	0.1	5	0	0	0	1	0
A13	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B02	118	4	0	0	0	0	0	0	0	0	1	3	0.1	0.1	3	0	0	0	1	0
B03	82	1	0	0	0	0	0	2	0	0	3	2	2	0.1	15	0	0	0	3	0.1
B04	91	0	0	0	1	0	0	0	0	0	1	1	0.1	0.1	4	0	0	0.1	4	0
B05	240	2	1	0	0	0	0	0	0	0	1	1	1	0.1	2	0	0	0	3	0
B06	153	1	0	0	0	0	0	0	0	0	2	3	1	0.1	5	0	0	0.1	0.1	0
B07	233	1	0	0	0	0	0	0	0	0	1	2	2	0.1	4	0	0	0.1	15	0.1
B08	245	1	0	0	0	0	0	0	0	0	2	0.1	0.1	0.1	5	0	0	0.1	0.1	0.1
B09	98	0	0	0	0	0	0	0	0	0	0	2	0.1	0.1	3	0	0	0.1	1	0
B10	11	4	0	0	0	0	0	0	0	0	4	0.1	0.1	0.1	8	0	0	0	1	0.1
B11	56	1	0	0	0	0	0	0	0	0	4	1	0.1	3	15	0	0	0	8	0
B12	173	0	0	0	0	0	0	0	0	0	1	10	0	0	25	0	0	0	5	0
C02	189	4	0	0	0	0	0	0	0	3	0	2	0.1	0.1	2	0	0	0	2	0.1
C03	51	0	0	0	0	0	0	0	0	0	2	0.5	0.1	0.1	2	0	0	0	2	0.1
C04	6	1	0	0	0	0	0	0	0	0	0	0.1	0.1	0.5	1	0	0	0	5	0
C05a	93	0	0	0	1	0	0	1	0	0	1	1	0.1	0.1	5	0	0	0	3	0
C05b	46	1	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	1	0	0	1	6	0.1
C06	237	0	0	0	0	0	0	0	0	0	1	0.1	2	0.1	3	0	0	0.1	2	0.1
C07	145	1	0	0	1	0	0	0	0	0	4	8	0.1	0.1	10	0	0	0.1	3	0
C08	136	1	0	0	0	0	0	0	0	0	6	2	0.1	0.1	3	0	0	0	1	0.1
C09	131	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	3	0	0	0	0.1	0
C10	210	9	2	0	0	0	0	0	0	0	9	0.1	2	0.1	7	0	0	0	0.1	0.1
C11	169	0	0	0	1	0	0	1	0	0	3	4	0.1	0.1	25	0	0	0.1	2	0
C12	166	0	0	0	0	0	0	0	0	0	2	3	0.1	0.1	15	0	0	0	3	0.1
D02	143	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0.1	0	0	0	0.1	0.1
D03	149	0	0	0	0	0	0	0	0	0	0	2	0	0.1	5	0.1	0	0	2	0
D04	9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	2	0	0	0	4	0
D05	106	0	0	0	0	0	0	0	0	0	0	0	1	0	0.1	0	0	0	0.1	0
D06	3	0	0	0	0	0	0	0	0	0	1	0.1	0.1	0.5	0.5	0	0	0	0.1	0
D07	14	0	0	0	0	0	0	0	0	0	0	2	1	0.5	4	0	0	0	4	0
D08	230	1	1	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0	0.1	0

Appendix. Indicator mineral visual and SEM counts

Field no	Lab no	Spinel	Gahnite	Chondro	Corund	Cr-garnet	Dumort	Mn-epidote	Sapphir	Topaz	Red rut	Kyanite%	Sill%	Tm%	St%	Sps%	Fay%	Opx%	Ap%	Mz%	
D09	139	0	0	0	0	0	0	0	0	0	0	3	0	0.1	0	0	0	1	0.1	0.1	
D10	127	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1	0	0	0	0.1	0	
D11	39	0	0	0	0	0	0	0	1	0	0	1	0.1	0.1	0.1	10	0	0	0.1	4	0.1
D12	225	2	0	0	0	0	0	0	0	0	0	1	2	0.1	0.1	15	0	0	0	2	0
E02	92	0	0	0	0	0	0	0	0	0	0	0	2	0.1	0.1	2	0	0	0.1	4	0
E03	190	0	0	0	0	0	0	0	1	0	0	0	5	0.1	0.1	5	0	0	2	5	0
E04	186	2	0	0	0	0	0	0	0	0	0	0	2	0.1	0.1	3	0	0	0	5	0
E05	61	1	0	0	0	0	0	0	0	0	0	1	0.1	0	0.1	3	0	0	0	0.1	0.1
E06	12	1	0	0	0	0	0	0	0	0	0	3	1	0.1	0.5	3	0	0	1	2	0
E07	195	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0.1	0
E08	113	1	0	0	0	0	0	0	0	0	0	0	2	1	0.1	2	0	0	0	0.1	0
E09	181	1	1	0	0	0	0	0	0	1	0	0	2	0.5	0.1	4	0	0	0.1	0.1	0
E10	101	0	0	0	0	0	0	0	0	0	0	2	2	0.1	0.1	35	0	0	0	2	0
E11	167	1	0	0	0	0	0	0	0	0	0	4	2	0.1	0.1	20	0	0	0	2	0.1
F02	185	2	0	0	0	0	0	0	1	0	9	0	2	0.1	0.1	3	0	0	0.1	2	0
F03	198	1	0	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	1	0	0	0	0.1	0.1
F04	211	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	1	0	0	0	3	0
F05	142	1	0	0	0	0	0	0	0	0	0	0	2	0	0.1	2	0	0	0.1	0.1	0.1
F06	57	1	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0.1	0.1	0
F07	64	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	5	0	0	0	5	0
F08A	269	1	0	0	0	0	0	0	0	0	0	4	0.1	1	0.1	2	0	0	0.1	0.1	0.1
F08B	264	2	1	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	1	0	0	4	0.1	0
F09	229	2	0	0	0	0	0	0	0	0	0	0	0.1	3	0.1	5	0	0	0	10	0
F10	158	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	20	0	0	0	0.1	0
G02	125	1	0	0	0	0	0	0	0	0	0	1	2	0.1	0	3	0	0	0	0.1	0
G03	94	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0	3	0
G04	163	1	0	2	0	0	0	0	0	0	0	2	1	0	0.1	3	0	0	0.1	0.1	0
G05	236	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0.1	0	0	0.1	0.1	0
G06	90	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	5	0	0	0	8	0.1
G07	174	1	0	0	0	0	0	0	0	0	0	0	2	0.1	0	3	0	0	0	0.1	0.1
G08	193	0	0	0	1	0	0	0	0	0	0	0	0.5	0	0.1	3	0	0	0	1	0.1
G09	232	1	0	0	0	0	0	0	1	0	0	5	0.1	1	0.1	3	0	0.1	0.1	3	0.1
G10	22	1	1	0	0	0	0	0	0	0	0	2	2	0	0.1	20	0	7	0.1	5	0.1
H02	222	2	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0.1	0
H03	179	0	0	0	0	0	0	0	0	0	0	0	2	0.1	0	4	0	0	5	0	0
H04	105	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0.1	2	0
H05	124	0	0	0	0	0	0	0	0	0	0	0	1	0	0.1	6	0	0	0.1	2	0
H06	77	3	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0	2	0
H07	170	1	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0	0	0.1	2	0
H08	132	0	0	0	0	0	0	0	0	0	0	1	2	0.1	0.1	0.1	0	0	0.1	2	0
H09	271	1	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	8	0.1	0.1	0
H10	7	0	0	0	0	0	0	0	0	0	0	2	0	0.1	0.5	0.5	0	50	0.1	15	0.1

Appendix. Indicator mineral visual and SEM counts

Field no	Lab no	Spinel	Gahnite	Chondro	Corund	Cr-garnet	Dumort	Mn-epidote	Sapphir	Topaz	Red rut	Kyanite%	Sill%	Tm%	St%	Sps%	Fay%	Opx%	Ap%	Mz%
I02	34	0	0	0	1	0	0	1	0	0	0	5	0	0.1	10	0	0	2	5	0.1
I03	87	0	0	0	0	0	0	0	1	0	0	0.1	0	0.1	0	0	0	0.1	2	0
I04	165	2	0	0	0	0	0	0	0	0	0	2	1	0.1	3	0	0	0.1	0.1	0
I05	217	2	1	0	0	0	0	0	0	0	3	0.5	0	0.1	5	0	0.1	0.5	3	0
I06	13	0	0	0	0	0	0	0	0	0	3	0.1	0.1	0.1	5	0	0	0	0.1	0
I07	86	0	0	0	0	0	0	0	0	0	2	0.1	0.1	0.1	5	0	0	0.1	4	0
I08	73	1	0	0	0	0	0	0	0	0	2	0.5	0.1	0.1	4	0	0.1	2	8	0
I09	60	0	0	0	0	0	0	0	0	0	2	3	0.1	0.1	5	0	0.1	0	0.1	0.1
I10	155	1	0	0	0	0	0	0	0	0	0	1	0.5	0.1	2	0	0.1	7	0.1	0
J02	66	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0	0.1	0
J03	47	1	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	1	0	0	0.1	3	0
J04	103	0	0	0	0	0	0	0	0	0	0	3	0	0.1	5	0	0	0.5	5	0
J05	226	1	0	0	0	0	0	0	0	0	1	1	0	0	5	0	0.1	0	0.1	0
J06	183	0	0	0	0	0	0	0	0	0	0	1	0.1	0.1	7	0	0.1	3	3	0
J07	204	1	0	0	0	0	0	1	0	0	0	0.1	0.1	0.1	20	0	5	0.1	0.1	0
J08	107	0	0	0	0	0	0	0	0	0	2	0.1	0.1	0.1	5	0	0	1	0.1	0
J09	130	3	0	0	0	0	0	0	0	0	0	2	0.1	0.1	20	0	0.1	0.1	5	0
J10	20	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	6	0	0	1	5	0
K02	273	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0.1	0.1	0
K03	41	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	3	0	0	1	5	0
K04	250	0	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	1	0	0	0.1	0.1	0
K05	21	1	0	0	0	0	0	0	0	0	3	0.1	0.1	0.1	3	0	0.1	0.1	0.1	0
K06	261	3	0	0	0	0	0	1	0	0	0	0.1	0.1	0.1	8	0	20	0.1	1	0
K07	148	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	10	0	10	0.1	0.1	0
K08	121	0	0	0	1	0	0	0	0	0	1	0.1	0.1	0.1	2	0	15	0	2	0
K09	111	0	0	0	0	0	0	0	0	0	5	0	0	0.1	2	0	8	0	3	0.1
K10	228	1	0	0	1	0	0	0	0	0	1	0.5	0	0.1	5	0	0.1	0	0.1	0.1
L02	18	0	0	0	0	0	0	0	0	0	1	0.1	0	0.1	2	0	0	0.1	1	0.1
L03	251	0	0	0	0	0	0	0	0	0	2	1	0.1	0.1	5	0	0	0.1	3	0
L04	220	1	0	0	0	0	0	0	0	0	0	2	0.1	0.1	10	0	0	0.1	2	0
L05E	23	1	1	0	0	0	0	0	0	0	1	0.1	0.1	0.1	8	0	0.1	0.1	5	0
L05W	4	0	0	0	0	0	0	0	0	0	1	0.1	0	0.1	1	0	0	0	2	0
L06E	40	1	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	5	0	0	0	20	0
L06WA	218	2	0	0	0	0	0	3	0	0	1	0.1	0	0.1	3	0	0	0	5	0
L06WB	184	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	5	0	0	0	5	0
L07	44	0	0	0	0	0	0	0	0	0	5	0.1	0.1	0.1	10	0	0	0	3	0
L08	267	0	0	0	0	0	0	0	0	0	1	0	0	0	15	0	0	0	0.1	0
L09	19	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	5	0	30	0.1	0.1	0.1
L10	99	0	0	0	0	0	0	0	0	0	2	0	0.1	0.1	0	0	1	0.5	0.1	0
L11	150	2	0	0	0	0	0	0	0	0	2	0	0.1	0.1	0.1	0	0.1	0	0.1	0.1
M02	78	1	0	0	0	0	0	0	0	0	1	1	1	0.1	2	0	0	0.1	2	0
M03	152	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0.1	0.1	0

Appendix. Indicator mineral visual and SEM counts

Field no	Lab no	Spinel	Gahnite	Chondro	Corund	Cr-garnet	Dumort	Mn-epidote	Sapphir	Topaz	Red rut	Kyanite%	Sill%	Tm%	St%	Sps%	Fay%	Opx%	Ap%	Mz%
M04	248	0	0	0	0	0	0	0	0	0	0	2	0.1	0.1	5	0	0	0.1	5	0
M05	29	3	0	0	0	0	0	1	0	0	3	0.1	0.1	0.1	8	0	0	0.1	0.1	0.1
M06	49	3	0	0	0	0	0	0	0	0	4	0.1	0.1	1	5	0	0	0.1	8	0
M07	172	3	0	0	0	0	0	0	0	0	4	0.1	0.1	0.1	8	0	0	2	0.1	0
M08	128	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	40	0	0.1	0	0.1	0.1
M09	180	0	0	0	0	0	0	0	0	0	0	0	1	0	0.1	0	0	0	10	0
M10	188	0	0	0	0	0	0	0	0	0	1	0	0	0.1	0	0	3	0	1	0.1
M11	120	0	0	0	0	0	0	0	0	0	9	0	0	5	0	0	8	0	3	0
N03	215	0	0	0	1	0	0	0	0	1	1	0	0	0.1	4	0	0	0	4	0
N04	147	0	0	0	0	0	0	0	0	0	0	0.1	0	0	3	0	0	0	2	0
N05	138	0	0	0	0	1	0	1	0	0	3	0	0.1	0	5	0	0	0.1	1	0
N06	202	1	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0.1	3	0
N07	16	0	0	0	1	0	0	0	0	0	2	0.1	0	0.1	20	0	0.1	0.5	0.1	0
N08	259	0	0	0	0	0	0	0	0	0	1	0	0.1	0	2	0	8	0	1	0
N09	32	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	15	0	0.1	1	0.1	0
N10	242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0.1	0
N11	266	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	10	0	0.1	0.1
N12	270	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	25	0	0.1	0
O03	177	0	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	3	0	0	0	1	0
O04	8	1	0	0	0	0	0	1	0	0	1	0.1	0.1	0	2	0	0	2	2	0
O05	272	1	0	0	1	0	0	0	0	0	2	0.1	0.1	0.1	3	0	0	0	2	0.1
O06	207	1	0	1	0	0	0	0	0	0	2	0	0.1	0.1	3	0	0	0	0.1	1
O07	182	1	0	0	0	0	0	0	0	0	5	0.1	0.1	0.1	15	0	2	0	2	0.1
O08	212	5	2	0	0	1	0	0	0	0	1	0	0.1	0.1	3	0	2	0	0.1	0
O09	246	0	0	0	0	0	0	0	0	0	0	0.1	0	0	15	0	0.1	0.1	1	0
O10	162	0	0	0	0	1	0	0	0	0	0	0	0.1	0.1	5	0	1	0.1	0.1	0.1
O11	221	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1	0	20	0	0.1	0.1
O12	65	0	0	0	0	0	0	0	0	0	0	0.1	0.1	1	0.1	0	0.1	0	1	0
P03	37	0	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	3	0	0	1	10	0
P04	28	0	0	0	0	0	0	0	0	0	0	0.1	0	0	3	0	0	0.1	0	0
P05	206	0	0	0	0	0	0	0	0	0	3	0.1	0.1	0.1	3	0	0	0.1	5	0.1
P06	268	3	0	0	1	0	0	0	0	0	1	0.1	0.1	0.1	0.1	0	0	0	1	0.1
P07	48	0	0	0	0	0	0	0	1	0	1	0.5	0.1	0.1	5	0	0	0	1	0
P08	247	0	0	0	0	0	0	0	0	0	1	0	0.1	0.1	2	0	0	0	4	0
P09	154	0	0	0	0	0	0	1	0	0	2	0	0	0	20	0	0	5	0.1	0
P10	157	0	0	0	0	0	0	0	0	0	0	0.1	0	0	10	0	10	0.1	10	0
P11	123	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	15	0.1	20	0
P12	62	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	5	0	15	0
P13	10	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0	3	0.1	20	0
Q02	72	0	0	0	0	0	0	0	0	0	1	0.1	0.1	0	0.1	0	0	0	5	0
Q03	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.1	0.1
Q03A	129	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0	0	0.1	2	0

Appendix. Indicator mineral visual and SEM counts

Field no	Lab no	Spinel	Gahnite	Chondro	Corund	Cr-garnet	Dumort	Mn-epidote	Sapphir	Topaz	Red rut	Kyanite%	Sill%	Tm%	St%	Sps%	Fay%	Opx%	Ap%	Mz%	
Q04	257	0	0	0	0	0	0	0	0	0	0	2	0	0.1	3	0	0	0.1	5	0	
Q05	203	1	0	0	0	0	0	1	0	0	3	1	0.1	0.1	8	0	0	0.1	5	0	
Q06	108	1	0	0	0	0	0	0	0	0	1	0.1	0.1	0	0.1	0.1	0	1	20	0.1	
Q07	17	1	0	0	0	0	0	1	0	0	0	1	0.1	0	2	0	0	0.1	5	0.1	
Q08	156	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0.1	1	0.1	
Q09	96	1	0	0	1	0	0	1	0	0	1	0.1	0.1	0.1	20	0	0	0	3	0	
Q10	275	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0.5	0.1	0.1	0	
Q11	58	0	0	0	0	0	0	0	0	0	0	1	0.1	0.1	10	0	10	0.1	5	0	
Q12	97	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	15	0.1	30	0.1	
Q13	263	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	5	0.1	5	0	
R02	253	0	0	0	0	0	0	0	0	0	1	0.1	0	0	0.1	0	0	0	10	0	
R03	15	1	1	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0	1	0	
R04	199	0	0	0	0	0	0	2	0	0	1	0.1	0.1	0	0.5	0	0	0	5	0.1	
R05	219	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	1	0	0	0	1	0	
R06	164	0	0	0	0	0	0	0	0	0	0	2	0.1	0.1	2	0	0	0.1	5	0	
R07	134	0	0	0	0	0	0	1	0	0	3	0.1	0.1	0.1	1	0	0	0.1	2	0.1	
R08	24	0	0	0	0	0	0	0	0	0	0	0.1	0	0	1	0	0	0.1	8	0	
R09	201	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	15	0	0	0.1	15	0	
R10	151	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0.1	0.1	5	0.1	0.1	
R11	213	0	0	0	0	0	0	0	0	0	2	0.1	0.1	0.1	10	0	0	0	3	0	
R12	194	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	1	0	30	0.1	60	0	
R13	192	0	0	0	0	0	0	0	1	0	0	0.1	0.1	0	0.1	0	30	0.1	70	0	
R14	171	1	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0.1	0	10	0.1	20	0	
R15	74	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	0.1	0	1	0	
S01	75	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0	2	0	
S02	45	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0.1	5	0	
S03	112	1	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0	2	0.1	
S04	79	0	0	0	0	0	0	0	0	0	2	0.1	0.5	0.1	2	0.1	0	1	0.5	0.1	
S05	89	1	1	0	0	0	0	0	3	0	0	2	0.5	0.1	0.5	2	0	0.1	1	2	0
S06	53	0	0	0	0	0	0	0	0	0	1	2	0.1	0.1	3	0	0	0.1	5	0	
S07	224	0	0	0	0	0	0	1	0	0	0	0.1	0	0.1	0.1	0	0	0	5	0	
S08	81	0	0	0	0	0	0	0	0	0	1	1	0.1	0.1	0.1	0	0	0	1	0	
S09	249	0	0	0	0	0	0	0	0	0	0	0.5	0	0	3	0	0	0.1	3	0	
S10	55	1	1	0	0	0	0	0	0	0	0	0	0.1	0	15	0	0	0	6	0	
S11	84	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	10	0.5	0	0	0.1	0	
S12	116	0	0	0	0	0	0	0	0	0	0	0	0.1	0	2	0.1	0	0.1	1	0	
S13	146	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	50	0	50	0	
S14	80	0	0	0	0	0	0	1	0	0	0	0.1	0	0	0.1	0	20	0	1	0	
S15	187	0	0	0	0	0	0	0	0	0	0	1	2	0	2	0	5	0.1	30	0	
S16	256	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	5	0	5	0	
T01	71	0	0	0	0	0	0	1	0	0	2	4	0.1	0.1	2	0.1	0	3	2	0	
T02	144	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0	0	0.1	1	0	

Appendix. Indicator mineral visual and SEM counts

Field no	Lab no	Spinel	Gahnite	Chondro	Corund	Cr-garnet	Dumort	Mn-epidote	Sapphir	Topaz	Red rut	Kyanite%	Sill%	Tm%	St%	Sps%	Fay%	Opx%	Ap%	Mz%
T03	254	1	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	1	0	0	0	3	0
T04	265	1	0	0	0	0	0	0	0	0	2	0.1	0	0.5	0.1	0	0.1	0	10	0.1
T05	88	0	0	0	0	0	0	0	0	0	1	1	0.1	0.1	1	0	0	0.1	3	0
T06	140	1	1	0	0	0	0	0	0	0	5	0.1	0.1	0.5	2	0	0	0.1	2	0
T07	117	2	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	2	0.1	0	0.1	1	0.1
T08	85	0	0	0	0	0	0	0	0	0	1	0.1	0	0	2	0	0	0.1	2	0.1
T09	67	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0	0	0	1	0
T10	27	1	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0	0	0	8	0
T11	33	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0.1	0.1
T11-2	260	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0.1	0	2	0.1
T12	216	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	5	0	0	0.1	2	0.1
T14	208	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0	4	0.1	10	0
T15	59	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	60	0	25	0
T16	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0.1	0
U02	235	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	0.1	4	0
U03	191	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	5	0	0	0.1	5	0
U04	83	1	0	0	0	0	0	0	0	0	1	0.1	0.1	0.1	1	0	0	0	5	0.1
U05	54	0	0	0	1	0	0	0	0	0	0	1	0.1	0.1	0.1	0	0	0.1	10	0.1
U08	234	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	2	0	0	1	0.1	0
U09	31	0	0	0	0	0	0	0	0	0	1	0.1	0.1	0	0.1	0	0	0.1	4	0
U10	135	0	0	0	0	0	0	4	0	0	2	0	0.1	0.1	20	0	0.5	0.1	10	0
U11	205	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	2	0	0	0	15	0.1
V02	70	0	0	0	1	0	0	0	0	0	1	3	0	0.1	3	0	0	0.1	10	0.1
V03	231	1	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0.1	0	0	0.1	4	0
V04	50	1	0	0	0	0	1	0	0	0	3	3	0.1	0	3	0	0	0.1	0.1	0
V06	227	0	0	0	0	0	0	0	0	0	1	0.5	0.1	0	0.1	0	0	0.1	2	0
V07	36	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0	0	0.1	0.1	0.1
V08	238	0	0	0	0	0	0	0	0	0	1	0.1	0	0.1	1	0	0	2	5	0.1
V09	178	2	0	0	1	0	0	0	0	0	0	0.1	0.1	0	2	0	0	0	20	0
W02	104	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.5	0	0	0	6	0.1
W03	102	2	1	0	0	0	0	0	0	0	0	0.1	0	0.1	2	0	0	0	12	0
W04	175	0	0	0	0	0	0	0	0	0	0	1	0.5	0.1	3	0	0	0.1	3	0.1
W05	100	0	0	0	0	0	0	1	0	0	1	0.1	0	0	1	0.1	0	1	1	0.1
W06	196	0	0	0	0	0	0	1	0	0	0	1	0.1	0.1	3	0	0	1	3	0
X01	43	0	0	0	0	0	0	1	0	0	0	0.5	0	0	2	0	0	0	25	0
X02	243	0	0	0	0	0	0	2	0	0	0	0.1	0	0.1	3	0	0	2	4	0
X03	274	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	1	0	0	0	1	0.1
X04	110	1	1	0	0	0	0	0	0	0	2	0.1	0	0	2	0.1	0	0.1	1	0.1
X05	244	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	1	0	0	0.5	7	0
Y05	42	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	1	0	0.1	0.1	2	0

Appendix. Indicator mineral visual and SEM counts

Field no	Lab no	Spinel	Gahnite	Chondro	Corund	Cr-garnet	Dumort	Mn-epidote	Sapphir	Topaz	Red rut	Kyanite%	Sill%	Tm%	St%	Sps%	Fay%	Opx%	Ap%	Mz%
Z01	109	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	2	0	0	8	10	0.1
Z02	160	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	1	0	0	0.1	0.1	0
Z03	223	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	3	0.1	0
Z04	141	0	0	0	0	0	0	0	0	0	0	0.1	0	0	1	0	0	5	2	0
Z05	161	0	0	0	0	0	0	0	0	0	0	2	1	0	40	0	0	5	5	0
Z06	176	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	2	0	0	0.1	0	0
Z07	63	2	0	0	0	0	0	2	0	0	1	0.1	0	0.1	0.1	0	0	10	2	0
Z08	258	2	0	0	5	0	0	0	2	0	17	0	0	0.1	0.1	0	0.1	15	2	0
Z09	239	4	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	40	0	0
Z10	26	3	0	0	0	1	0	0	0	0	3	1	0.1	0	3	0	0	0.1	10	0
Z11	262	0	0	0	0	0	0	0	0	0	1	0	0.1	0.1	4	0	0	0	1	0
Z12	76	0	0	0	0	0	0	0	0	0	1	0	0.1	0.1	0.1	0	0	0	2	0
Z13	159	2	0	0	0	0	0	0	0	0	50	0.1	0.1	0	3	0	0	0.1	2	0
Z14	52	1	0	0	0	0	0	2	0	0	0	1	1	0.1	10	0	0	0.1	2	0
Z15	30	0	0	0	0	0	0	1	0	0	1	0.1	0	0.1	1	0	0	0.1	10	0
Z16	214	0	0	0	0	0	0	0	0	0	0	0.5	0	0.1	0.1	0	0.1	1	2	0
Z17	252	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0	0	0.1	0.1	0
Z18	69	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	0	0.1	0
Z19	122	0	0	0	0	0	0	0	0	0	1	0	0.1	0.1	0.1	0	10	0	60	0
Z20	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	10	0	5	0.1
96TCA18	114	1	0	0	0	0	0	0	0	0	5	1	0.1	0	2	0	0	0.1	1	0
96TCA19	197	1	0	0	0	0	0	0	0	0	0	0.1	0	0	1	0	0	0.1	0.1	0
96TCA23	95	1	0	0	0	0	0	0	0	0	2	0.1	0.1	0	2	0	0	0.1	0.5	0.1

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	Li	Be	P	K	Sc	Ti	V	Cr	Mn	Co	Ni	Zn	Cu	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	Pb	Th	U	
Z09	239	n-239-69	26	1	80	54	68	1945	141	8341	787	46	1176	11	46	8	2		0	16	47	23			2	9	40	9	44	12	1	11	2	10	2	5	1	3	0	1		2	2		
Z09	239	n-239-70	45		82		61	861	161	7539	949	30	363		23	7	2			14	23	108	0	0		10	36	5	23	5	1	4	1	4	1	2	0	3	0	3		1	0	0	
Z09	239	n-239-71	40	1	87		62	1020	151	9782	817	30	561		25	4	4	1		8	109	41	0			19	112	29	171	50	2	40	5	26	4	10	1	6	1	3	0	1	1		
Z09	239	n-239-72	32	1	80		80	239	187	6738	822	31	461		25	4	3	1		9	108	29	0			10	73	17	90	25	2	23	3	21	4	9	1	7	1	2	0	2	0		
Z09	239	n-239-73	41		79		65	1153	158	7385	689	28	420		11	3	2			37	9	42	0			11	30	3	9	1	0	2	0	2	0	1	0	1	0	1		1	0	0	
Z09	239	n-239-74	28	1	89		71	1224	165	4581	895	33	551	1	19	6	3			30	22	132	0			15	52	7	29	5	1	4	1	4	1	2	0	2	0	4		1	0	0	
Z09	239	n-239-75	37		92	6	81	387	182	5525	1071	35	454	1	33	5	3			11	22	26	0		0	11	37	5	19	4	1	3	1	4	1	2	0	3	0	2		1	0		
Z09	239	n-239-76	7		94	149	39	599	106	5905	915	24	434		16	4	4	0	0	418	11	32	0		2	13	31	4	16	3	1	2	0	2	1	1	0	1	0	1	0	2	1	0	
Z09	239	n-239-77	39		112	30	36	92	49	7944	838	42	1039	0	27	6	5	1		70	92	20	0			10	45	9	55	18	2	20	3	19	3	8	1	6	1	1		1	0	0	
Z09	239	n-239-78	40	1	77	7	63	579	145	8725	768	29	569		37	3	2	1		17	74	26	0		0	11	56	12	63	19	1	18	3	16	3	7	1	5	1	1		1			
Z09	239	n-239-79	46	1	75	133	56	1094	158	6711	1020	30	416	5	19	5	2	1	0	73	13	63	0		72	17	48	6	21	3	1	3	0	3	1	1	0	1	0	2	0	12	1	0	
Z09	239	n-239-80	33	1	79		77	769	238	36105	5969	44	426		31	6	3			11	36	81	0			20	62	8	35	8	1	8	1	8	2	4	1	3	0	3	0	1	0	0	
Z09	239	n-239-81	45		78		81	1025	158	5644	942	36	422	1	20	4	3			36	13	35	0			5	18	3	10	3	1	2	0	2	1	1	0	1	0	1	0	0			
Z09	239	n-239-82	39	3	78		49	605	71	6708	1433	36	802	1	39	10	4	1		7	203	65	0	0		27	148	28	130	37	1	36	6	39	8	20	2	15	2	4	0	2	0	0	
Z09	239	n-239-83	38		84		49	482	109	4264	849	35	481		20	5	2	1		43	6	40	0		1	7	17	2	8	1	0	1	0	1	0	1	0	1	0	1		2	1	0	
Z09	239	n-239-84	50	2	67		85	517	154	5750	958	35	558		26	6	4	1		5	111	31	0	0		6	46	12	71	22	2	21	3	21	4	10	1	7	1	2		1			
Z10	26	n-26-01	44	1	58		61	309	124	4306	1441	35	342	81		5	4	1		36	24	24	0	0		20	59	9	38	8	1	6	1	5	1	2	0	2	0	1		1	0	0	
Z10	26	n-26-03	47	1	54	274	34	279	76	4031	761	23	191	25		2	2		0	116	6	6	0	0	1	4	16	3	15	4	1	3	0	2	0	1	0	0	0	0		1	0		
Z10	26	n-26-04	125	1	46		51	539	101	7838	832	35	712	35		6	4			24	45	31	0			21	98	17	72	15	2	11	2	9	2	4	1	3	0	2	0	1	0	0	
Z10	26	n-26-04	124	2	16		52	551	104	8259	900	37	756	40		6	3			23	46	30	0			21	96	17	74	16	2	11	2	9	2	4	1	3	0	2		1	0	0	
Z10	26	n-26-04	26		45		58	809	127	4386	887	36	237	17		3	3			29	6	12	0		0	2	6	1	5	1	0	1	0	1	0	1	0	1	0	0		1	0	0	
Z10	26	n-26-05	72	2	47		45	248	81	2288	1303	30	112	37		3	4			55	4	6	0	0		2	5	1	4	1	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0
Z10	26	n-26-06	43	1	44	120	50	172	98	2104	1488	27	166	45		5	3	0	1	42	8	13			0	6	21	3	16	3	1	2	0	2	0	1	0	1	0	1	0	1	2	0	0
Z10	26	n-26-07	27	0	50	7	78	443	87	2372	1025	31	95	40		2	3	0	0	424	5	16	0	0	0	12	30	4	18	3	1	2	0	1	0	0	0	0	0	0	1		1	0	0
Z10	26	n-26-08	93	4	59		90	607	168	5109	1021	38	480	38		9	4	1		4	229	54	0	0		29	130	26	139	51	1	52	8	50	9	21	3	15	2	3	0	2	3	1	
Z11	262	n-262-03	15		50	25	66	1028	121	9516	656	22	266	1	13	4	2			91	5	19	0			2	8	2	10	3	1	2	0	1	0	1	0	0	0	1	0		0		

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	K2O
A02	168	n-168-13	52.73	0.10	1.38	0.83	3.45	0.12	17.44	22.38	0.29	0.01
A08	119	n-119-01	52.58	0.19	2.77	1.03	6.14	0.14	20.77	15.51	0.17	0.02
A08	119	n-119-02	53.75	0.13	0.82	0.73	3.23	0.09	17.61	22.79	0.38	0.03
A08	119	n-119-03	52.46	0.10	2.56	0.62	4.28	0.08	15.79	22.75	0.73	0.01
A08	119	n-119-04	53.46	0.15	0.77	0.78	3.26	0.08	17.43	23.12	0.26	0.02
B05	240	n-240-04	52.49	0.27	1.96	1.06	4.14	0.14	15.27	22.50	0.99	0.00
B05	240	n-240-05	53.48	0.06	1.60	0.46	3.60	0.15	15.87	23.09	0.83	0.00
B05	240	n-240-06	54.02	0.10	0.67	0.65	3.50	0.08	18.76	21.09	0.35	
B06	153	n-153-01	52.91	0.16	1.13	1.00	3.56	0.10	17.27	22.59	0.31	0.01
B06	153	n-153-02	52.94	0.16	1.24	0.94	3.84	0.10	17.26	22.35	0.35	0.02
B06	153	n-153-03	53.09	0.20	1.62	0.62	2.32	0.07	16.66	23.69	0.64	0.03
B07	233	n-233-01	52.69	0.16	2.60	0.91	2.96	0.09	15.61	23.27	0.79	0.01
C04	6	n-6-01	53.20	0.08	2.05	0.34	4.41	0.14	15.98	22.80	0.79	0.00
C04	6	n-6-02	52.85	0.25	1.76	0.85	4.29	0.10	18.29	20.70	0.46	0.01
C04	6	n-6-03	52.69	0.15	2.28	0.67	4.97	0.21	15.33	22.05	1.10	0.01
C04	6	n-6-04	53.74	0.02	0.82	0.24	4.39	0.17	16.15	23.22	0.49	0.00
C04	6	n-6-05	53.79	0.23	0.86	0.69	3.69	0.10	17.18	23.02	0.21	0.01
C04	6	n-6-06	53.42	0.24	0.96	0.80	3.48	0.13	17.24	23.37	0.28	
C04	6	n-6-07	53.32	0.20	1.11	0.78	3.79	0.12	17.54	22.46	0.24	0.02
C07	145	n-145-01	52.62	0.17	1.42	0.70	3.27	0.07	17.21	23.48	0.24	0.01
C07	145	n-145-02	52.66	0.09	2.06	0.96	4.61	0.14	15.25	22.08	0.97	0.01
C07	145	n-145-03	53.49	0.16	0.85	0.83	3.64	0.12	17.49	22.18	0.29	0.02
C07	145	n-145-04	51.91	0.08	3.02	0.59	4.79	0.14	14.83	22.84	0.85	
C07	145	n-145-05	52.86	0.10	2.24	0.69	3.81	0.14	15.51	22.94	0.83	0.00
C07	145	n-145-06	53.08	0.19	1.19	0.54	3.93	0.12	16.93	23.20	0.25	
C07	145	n-145-07	53.31	0.06	1.18	0.45	4.02	0.13	16.22	23.22	0.63	0.00
C07	145	n-145-08	53.96	0.11	0.75	0.78	2.61	0.10	17.78	23.22	0.26	0.01
C07	145	n-145-09	53.27	0.13	0.85	0.78	3.66	0.13	17.59	22.45	0.26	0.01
C07	145	n-145-10	53.56	0.03	0.93	0.15	4.10	0.12	15.95	23.74	0.66	0.01
C08	136	n-136-01	51.48	0.23	2.92	1.19	4.97	0.06	17.52	20.62	0.23	0.01
C08	136	n-136-02	53.46	0.14	0.87	0.57	3.49	0.12	17.63	22.34	0.37	0.01
C08	136	n-136-03	51.52	0.24	3.31	1.37	5.87	0.19	18.44	18.39	0.25	0.01
C08	136	n-136-04	52.74	0.16	1.36	0.79	4.65	0.11	17.52	21.17	0.37	
C08	136	n-136-05	53.39	0.15	0.83	0.85	3.89	0.13	17.92	21.75	0.28	0.01
C08	136	n-136-06	53.13	0.23	1.07	0.59	4.05	0.15	17.13	22.78	0.27	0.02
C12	166	n-166-01	52.58	0.21	2.05	0.68	3.76	0.08	16.40	23.09	0.46	0.00
D02	143	n-143-01	52.84	0.11	1.37	0.74	4.12	0.17	15.94	23.24	0.46	0.01
D02	143	n-143-02	52.70	0.16	1.56	0.88	3.34	0.09	17.49	22.55	0.33	
D03	149	n-149-01	51.61	0.22	2.75	1.23	4.71	0.15	17.52	20.74	0.25	0.01
D03	149	n-149-02	51.44	0.32	3.74	1.14	3.59	0.09	14.77	22.89	0.85	0.02
D03	149	n-149-03	51.79	0.20	2.69	1.08	6.06	0.16	19.74	17.21	0.33	0.01
D04	9	n-9-01	51.47	0.21	3.58	1.31	5.06	0.16	18.17	19.03	0.34	
D04	9	n-9-02	50.89	0.18	2.01	1.07	2.91	0.04	16.80	21.62	0.29	0.01
D04	9	n-9-03	53.22	0.07	1.36	0.63	3.45	0.07	16.23	23.57	0.55	0.01
D04	9	n-9-04	53.17	0.19	1.16	0.68	4.20	0.12	17.67	21.80	0.37	0.01
D04	9	n-9-05	53.46	0.15	0.70	0.75	3.27	0.14	17.69	23.04	0.25	

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	K2O
D04	9	n-9-06	51.96	0.26	2.84	1.46	4.23	0.11	18.52	19.24	0.57	
D04	9	n-9-07	53.45	0.03	0.98	0.39	3.05	0.10	16.73	24.15	0.44	0.00
D05	106	n-106-03	53.57	0.04	1.62	0.72	4.48	0.13	15.95	22.77	0.81	0.02
D05	106	n-106-04	52.95	0.23	3.80	0.83	2.68	0.05	15.58	22.18	1.51	0.01
D06	3	n-3-03	53.22	0.09	2.23	0.95	3.25	0.09	16.70	22.08	0.83	
D06	3	n-3-04	53.89	0.06	1.43	0.57	4.33	0.13	15.06	23.53	1.02	0.02
D07	14	n-14-02	51.66	0.19	2.82	1.09	5.19	0.15	18.04	19.31	0.32	0.01
D07	14	n-14-03	52.10	0.24	3.09	1.13	5.55	0.16	19.07	17.94	0.30	
D07	14	n-14-04	51.78	0.19	2.32	1.06	4.70	0.13	17.97	20.82	0.21	0.02
D07	14	n-14-05	53.48	0.17	0.65	0.14	4.18	0.16	17.50	23.05	0.18	
D07	14	n-14-06	53.72	0.04	0.90	0.39	3.83	0.13	16.59	23.59	0.61	
D07	14	n-14-07	53.65	0.15	0.81	0.25	3.73	0.11	17.81	23.04	0.26	0.01
D07	14	n-14-07	53.65	0.15	0.81	0.25	3.73	0.11	17.81	23.04	0.26	0.01
D08	230	n-230-02	52.76	0.21	2.09	0.71	3.46	0.10	15.78	23.16	0.83	0.02
D08	230	n-230-03	51.96	0.18	2.83	0.75	4.46	0.11	14.96	23.04	0.79	0.01
D10	127	n-127-01	52.62	0.09	1.95	1.43	2.67	0.05	18.50	21.35	0.25	0.01
E06	12	n-12-01	53.66	0.13	0.79	0.73	3.10	0.08	17.75	22.76	0.24	0.02
E06	12	n-12-02	52.85	0.05	2.42	0.62	4.49	0.10	15.78	22.45	0.75	
E06	12	n-12-03	53.34	0.19	0.79	0.71	3.74	0.12	17.47	22.89	0.24	0.02
E06	12	n-12-04	53.43	0.13	0.98	0.47	2.60	0.09	17.50	24.00	0.20	
E06	12	n-12-05	53.11	0.24	1.16	0.77	4.29	0.09	17.09	22.18	0.31	0.01
E06	12	n-12-06	53.10	0.17	1.15	0.68	3.05	0.06	17.19	23.76	0.25	0.02
E06	12	n-12-07	53.63	0.08	1.31	0.89	3.56	0.08	18.57	21.34	0.26	0.01
E06	12	n-12-08	53.84	0.07	1.11	0.63	3.78	0.13	16.30	23.51	0.62	0.00
E06	12	n-12-09	53.67	0.13	0.73	0.69	3.25	0.12	17.44	22.91	0.26	0.01
E06	12	n-12-10	53.22	0.17	0.98	0.94	3.54	0.10	17.15	22.80	0.33	0.00
E07	195	n-195-05	50.66	0.35	6.60	0.72	3.13	0.09	15.76	20.22	1.15	0.04
F02	185	n-185-04	52.82	0.16	1.89	0.56	4.19	0.13	15.71	23.06	0.82	0.00
F02	185	n-185-05	51.16	0.23	4.27	1.12	6.80	0.16	20.20	15.22	0.30	0.01
F03	198	n-198-04	52.97	0.15	1.83	1.13	3.43	0.10	18.13	21.11	0.43	0.01
F05	142	n-142-01	53.23	0.22	1.97	1.19	3.79	0.04	17.06	20.90	0.87	0.00
F05	142	n-142-02	53.70	0.09	1.31	0.54	3.19	0.11	16.38	23.59	0.64	0.01
F08A	269	n-269-04	53.43	0.07	1.46	0.61	3.35	0.07	16.13	23.36	0.72	0.01
G02	125	n-125-01	53.56	0.04	0.79	0.27	5.16	0.18	15.09	23.93	0.62	0.00
G02	125	n-125-02	53.25	0.05	1.46	0.61	4.68	0.11	15.95	22.76	0.56	0.02
G02	125	n-125-03	52.82	0.21	1.41	0.64	4.55	0.15	17.69	21.32	0.35	0.00
G02	125	n-125-04	52.91	0.09	1.69	1.15	4.69	0.13	15.04	23.07	0.87	0.01
G04	163	n-163-01	53.27	0.15	0.75	0.53	2.77	0.11	17.23	23.95	0.17	0.03
G04	163	n-163-03	53.18	0.10	1.73	0.43	3.90	0.10	15.79	23.33	0.69	0.00
G04	163	n-163-04	52.81	0.11	2.11	0.47	4.58	0.15	15.30	22.83	0.77	0.01
G09	232	n-232-07	52.48	0.26	2.68	0.76	3.41	0.11	15.55	22.91	0.70	0.02
G09	232	n-232-11	53.05	0.11	1.84	0.56	4.04	0.15	15.58	23.24	0.73	0.01
G10	22	n-22-01	52.64	0.11	2.12	0.95	4.72	0.15	18.97	19.24	0.31	0.01
G10	22	n-22-02	53.41	0.11	1.17	0.83	2.91	0.07	18.09	22.47	0.27	0.01
H09	271	n-271-02	49.01	0.43	8.31	0.87	5.76	0.07	18.05	12.56	1.47	0.63
I05	217	n-217-01	53.17	0.12	1.77	0.72	4.38	0.11	15.70	22.95	0.64	

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	K2O
I06	13	n-13-01	53.44	0.21	0.89	0.73	4.10	0.12	17.24	22.61	0.27	0.02
I06	13	n-13-06	53.52	0.18	1.80	1.44	3.17	0.13	15.68	22.59	1.18	0.02
I07	86	n-86-10	52.38	0.16	2.74	0.88	4.22	0.14	15.08	22.85	0.89	
I07	86	n-86-11	52.60	0.11	2.31	0.94	3.97	0.10	15.32	22.80	0.86	0.01
I08	73	n-73-10	51.97	0.20	2.61	0.98	3.86	0.10	16.90	22.49	0.24	0.02
I08	73	n-73-11	52.79	0.13	2.15	0.93	3.61	0.11	17.14	22.70	0.32	
I08	73	n-73-12	53.54	0.15	0.66	0.66	3.26	0.09	17.89	22.78	0.25	0.01
I08	73	n-73-13	53.66	0.14	0.84	0.42	3.69	0.14	17.99	22.50	0.29	
I08	73	n-73-14	53.43	0.12	2.01	1.11	4.19	0.05	16.34	22.01	4.77	0.00
I08	73	n-73-15	54.04	0.11	0.70	0.47	4.55	0.22	18.07	21.56	0.23	0.01
I08	73	n-73-16	53.27	0.20	0.84	0.61	4.40	0.11	17.37	22.59	0.22	0.01
I08	73	n-73-17	53.27	0.11	2.11	0.90	4.66	0.12	20.13	18.92	0.28	
I08	73	n-73-18	52.97	0.22	1.12	0.90	3.52	0.10	17.14	23.51	0.33	0.01
I08	73	n-73-19	53.99	0.05	0.89	0.49	4.44	0.18	15.76	23.86	0.61	0.02
I10	155	n-155-03	53.14	0.10	1.13	0.88	3.25	0.07	17.30	22.94	0.30	0.01
I10	155	n-155-04	53.42	0.18	1.80	1.37	3.24	0.07	15.35	22.61	1.19	
I10	155	n-155-07	52.45	0.15	2.46	0.66	3.79	0.14	15.59	22.95	0.81	0.01
J05	226	n-226-01	52.94	0.11	2.13	1.73	3.00	0.05	15.87	22.18	1.41	0.02
J05	226	n-226-03	54.00	0.04	0.83	0.60	4.43	0.16	15.14	23.76	0.90	0.01
J07	204	n-204-10	53.35	0.04	2.34	0.95	2.61	0.08	18.38	21.99	0.26	
J07	204	n-204-13	52.75	0.14	2.07	0.90	4.67	0.14	18.64	19.84	0.30	
J10	20	n-20-01	53.49	0.14	0.61	0.77	3.07	0.11	17.74	23.54	0.26	0.01
J10	20	n-20-02	52.75	0.24	0.98	0.81	3.94	0.12	17.15	22.81	0.28	0.00
J10	20	n-20-03	53.33	0.10	0.97	0.47	6.57	0.17	17.79	19.42	0.46	0.01
J10	20	n-20-04	52.66	0.21	0.93	0.60	4.01	0.13	17.06	23.10	0.27	0.01
K06	261	n-261-28	54.16	0.10	0.78	0.86	3.03	0.09	17.82	22.20	0.51	0.01
K06	261	n-261-32	53.26	0.13	1.66	0.99	3.60	0.08	16.74	21.98	0.79	
L05W	4	n-4-01	53.25	0.09	1.08	0.40	4.36	0.11	16.79	22.53	0.66	0.02
L06WA	218	n-218-09	51.79	0.21	2.50	1.69	3.19	0.09	15.70	22.95	0.94	
L06WA	218	n-218-10	52.62	0.17	2.80	0.94	3.78	0.16	17.84	21.00	0.32	0.01
L06WB	184	n-184-01	54.10	0.05	1.55	1.21	3.07	0.08	16.70	22.43	0.84	0.00
M05	29	n-29-01	53.91	0.21	0.70	0.70	3.73	0.11	17.28	23.12	0.26	
M05	29	n-29-02	53.49	0.03	0.72	0.21	5.23	0.26	14.96	23.87	0.66	0.01
M05	29	n-29-03	52.15	0.16	3.13	1.20	4.77	0.11	18.08	19.53	0.36	0.01
M05	29	n-29-05	53.05	0.10	1.52	0.67	3.68	0.11	18.19	21.63	0.26	
M05	29	n-29-06	53.34	0.10	1.04	0.43	5.24	0.22	15.41	22.88	0.71	0.00
M05	29	n-29-07	53.22	0.02	1.39	0.49	4.60	0.14	15.04	23.64	0.76	0.01
M05	29	n-29-09	53.79	0.02	0.97	0.13	4.78	0.19	15.17	24.16	0.67	
M05	29	n-29-10	52.75	0.12	1.90	0.96	3.87	0.07	18.58	20.68	0.23	0.03
M05	29	n-29-11	52.21	0.11	2.33	1.08	3.33	0.13	16.39	23.12	0.49	0.01
M05	29	n-29-12	53.96	0.02	0.66	0.25	4.37	0.14	15.44	24.13	0.58	
M05	29	n-29-13	53.77	0.03	1.15	0.25	4.24	0.17	15.43	23.59	0.83	
N05	138	n-138-01	52.46	0.16	1.79	0.68	3.18	0.11	17.06	23.32	0.26	0.02
N06	202	n-202-07	53.12	0.05	2.21	1.57	2.49	0.11	18.73	21.29	0.30	0.00
N06	202	n-202-08	52.65	0.11	5.35	1.20	2.30	0.08	16.02	20.93	1.28	
N06	202	n-202-09	53.47	0.14	1.73	0.86	3.59	0.12	15.64	23.98	0.57	0.01

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	K2O
N07	16	n-16-01	53.31	0.02	1.34	0.43	5.09	0.19	14.47	23.07	1.11	
N07	16	n-16-02	54.05	0.05	1.04	0.56	4.03	0.18	15.48	23.70	0.88	0.01
N09	32	n-32-01	52.73	0.15	2.23	0.88	3.77	0.10	17.38	21.87	0.33	0.01
O04	8	n-8-03	52.12	0.11	3.00	1.00	4.72	0.11	15.86	21.58	0.81	0.01
O05	272	n-272-10	53.53	0.20	1.61	1.02	3.12	0.07	17.55	22.39	0.53	
O06	207	n-207-03	52.30	0.18	2.85	0.99	4.25	0.09	17.00	21.43	0.47	0.02
O10	162	n-162-01	52.94	0.01	1.25	1.25	3.65	0.07	16.01	22.62	0.82	0.01
O10	162	n-162-02	52.44	0.17	2.10	1.07	3.79	0.10	15.33	22.99	0.86	0.01
P04	28	n-28-01	53.22	0.08	1.74	0.56	5.21	0.15	16.17	22.12	0.68	
P07	48	n-48-01	53.13	0.08	0.88	0.32	4.25	0.22	15.26	24.16	0.64	0.01
P07	48	n-48-04	53.22	0.03	2.70	1.20	1.44	0.07	16.12	22.96	1.13	0.00
P09	154	n-154-01	51.72	0.15	2.70	1.09	3.17	0.11	16.23	23.28	0.50	0.01
P09	154	n-154-02	52.51	0.14	2.34	0.89	3.39	0.14	16.57	23.28	0.33	0.00
P09	154	n-154-03	52.62	0.12	1.74	0.93	3.12	0.09	17.02	23.23	0.26	0.01
P09	154	n-154-04	52.97	0.12	2.10	1.02	3.80	0.12	18.25	20.74	0.30	0.00
P11	123	n-123-01	52.21	0.17	1.84	1.02	5.10	0.15	18.26	19.91	0.19	0.01
P11	123	n-123-01	52.21	0.17	1.84	1.02	5.10	0.15	18.26	19.91	0.19	0.01
P11	123	n-123-22	52.73	0.09	1.49	0.78	3.69	0.14	17.35	22.82	0.25	
P11	123	n-123-22	52.73	0.09	1.49	0.78	3.69	0.14	17.35	22.82	0.25	
P11	123	n-123-23	52.79	0.19	2.22	0.98	3.43	0.13	16.43	23.03	0.42	
P11	123	n-123-23	52.79	0.19	2.22	0.98	3.43	0.13	16.43	23.03	0.42	
P11	123	n-123-24	53.55	0.02	0.79	0.43	4.46	0.18	15.49	23.64	0.89	
P11	123	n-123-24	53.55	0.02	0.79	0.43	4.46	0.18	15.49	23.64	0.89	
P11	123	n-123-25	53.86	0.09	1.41	0.56	5.42	0.17	20.82	17.41	0.22	
P11	123	n-123-25	53.86	0.09	1.41	0.56	5.42	0.17	20.82	17.41	0.22	
P11	123	n-123-26	52.54	0.04	2.88	0.96	3.13	0.06	18.09	21.64	0.29	
P11	123	n-123-26	52.54	0.04	2.88	0.96	3.13	0.06	18.09	21.64	0.29	
P11	123	n-123-27	51.66	0.33	2.60	1.04	4.85	0.13	17.06	21.10	0.26	0.00
P11	123	n-123-27	51.66	0.33	2.60	1.04	4.85	0.13	17.06	21.10	0.26	0.00
P13	10	n-10-08	51.78	0.10	4.26	0.87	3.85	0.11	19.53	18.35	0.39	0.02
P13	10	n-10-08	51.78	0.10	4.26	0.87	3.85	0.11	19.53	18.35	0.39	0.02
P13	10	n-10-09	52.08	0.17	2.87	1.59	2.85	0.08	17.42	21.99	0.45	0.02
P13	10	n-10-09	52.08	0.17	2.87	1.59	2.85	0.08	17.42	21.99	0.45	0.02
P13	10	n-10-10	53.07	0.04	2.50	0.91	2.54	0.06	19.07	21.24	0.29	0.02
P13	10	n-10-10	53.07	0.04	2.50	0.91	2.54	0.06	19.07	21.24	0.29	0.02
P13	10	n-10-11	52.21	0.13	2.82	0.71	3.28	0.08	17.65	22.28	0.25	0.01
P13	10	n-10-11	52.21	0.13	2.82	0.71	3.28	0.08	17.65	22.28	0.25	0.01
P13	10	n-10-12	53.28	0.12	1.83	1.50	2.56	0.06	18.24	21.76	0.32	
P13	10	n-10-12	53.28	0.12	1.83	1.50	2.56	0.06	18.24	21.76	0.32	
P13	10	n-10-13	52.61	0.07	2.43	1.48	2.15	0.05	18.00	22.52	0.36	
P13	10	n-10-13	52.61	0.07	2.43	1.48	2.15	0.05	18.00	22.52	0.36	
P13	10	n-10-14	53.62	0.04	0.62	0.47	3.83	0.13	15.91	24.57	0.50	0.01
P13	10	n-10-14	53.62	0.04	0.62	0.47	3.83	0.13	15.91	24.57	0.50	0.01
Q03A	129	n-129-01	51.77	0.24	2.45	1.23	3.79	0.10	16.86	22.50	0.40	0.00
Q09	96	n-96-02	53.33	0.02	1.07	0.98	4.66	0.22	15.14	23.40	0.71	0.00
Q11	58	n-58-01	53.17	0.06	1.51	0.63	4.61	0.15	15.69	23.17	0.40	0.01

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	K2O
Q11	58	n-58-02	52.35	0.22	1.66	0.89	3.56	0.11	16.48	23.66	0.41	0.01
Q11	58	n-58-03	52.53	0.12	2.32	0.83	2.77	0.12	16.50	23.43	0.41	0.01
Q12	97	n-97-02	53.92	0.03	0.71	0.16	3.91	0.13	16.12	23.19	1.08	0.01
Q12	97	n-97-03	53.50	0.03	1.35	0.45	4.50	0.09	15.20	24.07	0.71	0.00
Q12	97	n-97-04	51.57	0.16	3.48	0.76	3.92	0.10	16.43	22.46	0.36	0.01
Q12	97	n-97-05	53.09	0.13	2.20	0.88	5.30	0.13	20.21	17.27	0.23	0.02
Q12	97	n-97-06	53.65	0.04	0.62	0.47	4.87	0.23	15.20	23.59	0.77	0.02
Q12	97	n-97-07	52.62	0.09	2.81	1.10	2.49	0.05	17.47	22.47	0.34	0.01
Q12	97	n-97-08	53.51	0.09	1.32	0.74	5.20	0.16	20.19	17.98	0.21	0.02
Q12	97	n-97-09	51.78	0.28	3.13	1.12	5.14	0.13	17.73	19.53	0.53	
Q12	97	n-97-10	53.16	0.10	1.21	0.90	3.34	0.12	18.23	22.19	0.26	0.02
Q12	97	n-97-11	53.85	0.13	1.52	0.66	4.12	0.13	17.38	20.29	0.56	0.06
Q12	97	n-97-12	52.86	0.14	1.88	0.97	3.69	0.12	17.87	21.74	0.27	
Q12	97	n-97-13	53.33	0.11	1.68	0.42	4.29	0.13	19.07	19.82	0.25	
Q12	97	n-97-14	52.62	0.21	1.69	0.58	3.82	0.08	16.00	23.68	0.57	
R03	15	n-15-03	53.14	0.15	1.82	0.72	2.60	0.08	16.68	23.91	0.47	0.00
R07	134	n-134-01	53.46	0.05	1.50	0.54	4.07	0.15	16.11	23.13	0.46	0.00
R10	151	n-151-02	53.24	0.05	0.84	0.57	4.00	0.11	15.85	23.87	0.58	0.01
R10	151	n-151-02	53.24	0.05	0.84	0.57	4.00	0.11	15.85	23.87	0.58	0.01
S04	79	n-79-01	58.24	0.14	2.78	0.91	3.23	0.09	29.54	17.42	0.59	0.02
S04	79	n-79-02	52.52	0.07	1.57	0.93	3.69	1.08	15.91	22.34	0.62	0.01
S04	79	n-79-03	53.23	0.15	0.92	0.82	3.90	0.13	17.90	21.73	0.35	0.00
S05	89	n-89-01	53.31	0.08	1.75	1.29	2.48	0.07	16.16	23.33	0.95	0.00
S13	146	n-146-02	52.81	0.14	1.12	1.16	2.51	0.03	16.71	23.43	0.54	0.01
T01	71	n-71-01	53.76	0.16	0.81	0.50	3.93	0.13	17.34	22.83	0.22	0.00
T01	71	n-71-02	53.35	0.15	0.83	0.84	3.26	0.08	17.70	22.82	0.29	0.02
T01	71	n-71-03	53.04	0.26	2.11	0.97	3.80	0.08	15.57	22.97	0.91	
T02	144	n-144-02	53.77	0.02	1.51	0.79	3.31	0.13	15.69	23.52	0.96	0.01
T05	88	n-88-05	52.43	0.09	2.88	0.62	3.66	0.12	15.46	22.84	0.82	
T05	88	n-88-06	51.21	0.39	7.23	0.74	3.51	0.11	15.88	18.68	1.63	
T05	88	n-88-07	51.26	0.28	3.55	1.07	5.36	0.14	17.64	19.52	0.29	0.00
T05	88	n-88-08	53.14	0.12	1.95	1.24	3.46	0.10	16.02	22.57	0.99	0.01
T05	88	n-88-09	50.54	0.10	1.87	0.32	2.80	0.06	15.55	21.02	0.70	
T06	140	n-140-02	53.92	0.15	1.31	0.62	3.43	0.11	18.23	21.79	0.34	0.00
T06	140	n-140-03	53.15	0.11	1.47	0.62	3.49	0.12	16.59	23.86	0.45	
T06	140	n-140-04	51.56	0.29	3.72	0.91	6.17	0.19	17.47	18.99	0.36	
T06	140	n-140-05	54.01	0.03	0.67	0.52	3.65	0.13	15.96	24.50	0.52	0.01
T06	140	n-140-06	53.35	0.10	1.60	0.52	3.39	0.09	16.38	22.75	0.76	
T06	140	n-140-07	52.67	0.08	2.57	0.25	4.51	0.10	15.33	23.20	0.77	
T06	140	n-140-08	53.86	0.10	0.78	0.45	3.05	0.11	17.86	22.85	0.21	0.01
T07	117	n-117-01	53.28	0.15	1.29	0.55	4.24	0.18	15.22	24.03	0.68	
T07	117	n-117-02	53.54	0.04	0.70	0.36	4.97	0.19	16.12	23.34	0.39	
T07	117	n-117-03	52.44	0.16	2.33	0.68	4.03	0.14	17.28	21.66	0.31	
T07	117	n-117-04	53.84	0.01	0.57	0.05	4.30	0.22	15.87	24.60	0.41	0.00
T07	117	n-117-05	53.52	0.04	1.04	0.28	4.51	0.20	15.35	23.93	0.78	0.00
T07	117	n-117-06	53.79	0.02	1.03	0.20	5.34	0.25	14.77	22.72	1.42	

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	K2O
T07	117	n-117-13	53.96	0.12	0.26	1.90	2.37	0.05	16.44	22.95	1.33	
U03	191	n-191-01	53.04	0.10	2.78	1.11	2.83	0.07	15.70	23.24	0.92	0.01
W05	100	n-100-01	50.58	0.54	2.47	0.01	9.77	0.26	11.87	22.47	1.36	
W05	100	n-100-02	55.03	0.04	0.25	0.01	0.86	0.06	18.11	25.73	0.03	
W06	196	n-196-03	52.35	0.17	1.85	1.74	2.46	0.08	15.64	23.46	0.92	0.03
X04	110	n-110-01	53.20	0.08	1.01	0.91	2.92	0.10	18.27	22.31	0.34	0.01
Z03	223	n-223-06	53.01	0.09	2.48	0.44	4.61	0.14	15.25	22.38	1.12	0.01
Z05	161	n-161-01	53.22	0.07	1.35	0.75	4.69	0.11	15.51	23.25	0.68	0.01
Z05	161	n-161-06	53.15	0.10	1.48	0.80	6.61	0.16	16.09	20.85	0.63	0.01
Z05	161	n-161-11	53.50	0.10	1.57	0.72	4.88	0.15	15.17	22.84	0.67	0.00
Z05	161	n-161-14	53.20	0.13	1.28	0.92	3.97	0.12	16.91	21.92	0.64	0.00
Z05	161	n-161-15	53.03	0.08	1.42	0.74	4.84	0.10	15.34	22.90	0.66	0.00
Z05	161	n-161-16	52.65	0.08	1.40	0.74	4.94	0.12	15.25	22.79	0.61	0.01
Z05	161	n-161-21	52.73	0.21	1.89	0.82	4.96	0.16	15.01	22.99	0.70	0.01
Z05	161	n-161-26	53.09	0.04	1.32	0.72	4.68	0.15	15.34	23.27	0.64	
Z05	161	n-161-28	52.74	0.14	1.78	0.84	4.77	0.15	14.89	23.09	0.76	
Z05	161	n-161-29	52.94	0.11	1.53	0.81	5.07	0.12	15.27	22.75	0.67	
Z05	161	n-161-30	53.04	0.05	1.42	0.75	4.74	0.13	15.34	23.31	0.63	0.00
Z05	161	n-161-31	53.03	0.08	2.17	0.54	3.83	0.12	15.72	22.98	0.85	
Z05	161	n-161-36	53.27	0.04	1.53	0.58	4.50	0.14	15.99	23.42	0.37	
Z05	161	n-161-37	52.74	0.26	2.02	1.17	3.84	0.07	15.16	22.68	1.03	0.01
Z05	161	n-161-38	53.19	0.15	1.62	0.65	2.94	0.09	15.99	23.85	0.67	
Z05	161	n-161-41	52.38	0.20	1.76	0.86	5.06	0.13	15.15	22.42	0.69	
Z05	161	n-161-42	52.61	0.10	2.69	0.59	3.56	0.12	15.20	23.11	0.85	
Z05	161	n-161-45	52.45	0.11	1.61	0.86	5.55	0.14	15.63	22.16	0.65	0.01
Z05	161	n-161-46	52.99	0.08	1.43	0.73	4.93	0.14	15.20	23.02	0.68	
Z05	161	n-161-49	51.73	0.08	2.31	1.00	5.19	0.33	14.53	22.55	0.83	
Z05	161	n-161-50	52.85	0.13	1.50	0.76	4.77	0.13	15.21	22.98	0.72	0.01
Z05	161	n-161-58	52.82	0.11	1.48	0.73	4.94	0.17	15.32	22.90	0.67	
Z05	161	n-161-59	52.59	0.12	1.76	1.10	4.12	0.12	15.30	23.11	0.65	
Z05	161	n-161-67	51.76	0.28	2.72	0.85	4.25	0.08	14.99	22.67	0.96	0.01
Z05	161	n-161-70	53.42	0.15	2.01	0.58	3.53	0.13	15.99	23.10	0.73	
Z05	161	n-161-72	52.43	0.15	2.15	0.52	4.70	0.17	15.12	22.92	0.82	0.01
Z05	161	n-161-78	53.88	0.11	1.60	0.82	2.89	0.08	16.54	22.63	0.83	
Z08	258	n-258-15	53.24	0.02	2.18	0.75	4.11	0.08	15.50	23.23	0.87	0.01
Z08	258	n-258-32	52.78	0.12	2.26		2.77	0.33	16.89	24.37	0.10	
Z08	258	n-258-44	52.62	0.21	2.35	1.18	3.96	0.10	15.03	22.41	1.06	
Z08	258	n-258-45	52.92	0.09	2.84	1.37	2.76	0.06	15.51	21.94	1.39	0.00
Z08	258	n-258-46	53.45	0.02	1.27	0.93	3.21	0.15	16.37	23.14	0.65	0.01
Z08	258	n-258-47	52.33	0.17	3.01	0.65	4.03	0.07	15.66	22.65	0.70	0.01
Z08	258	n-258-48	52.91	0.06	1.63	0.55	5.66	0.13	15.09	22.83	0.55	0.02
Z08	258	n-258-49	53.52	0.03	1.46	0.87	3.16	0.22	16.19	23.25	0.60	0.00
Z08	258	n-258-50	52.81	0.19	2.08	0.96	2.89	0.07	16.12	23.59	0.63	0.00
Z08	258	n-258-51	53.61	0.03	1.32	0.47	4.27	0.17	16.21	22.86	0.60	0.02
Z08	258	n-258-52	52.32	0.38	3.04	1.12	3.34	0.06	15.98	22.55	0.66	0.02
Z08	258	n-258-53	52.57	0.01	1.83	0.85	5.19	0.19	15.15	22.75	0.51	0.01

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	K2O
Z08	258	n-258-54	52.83	0.08	1.91	0.99	2.85	0.18	15.98	23.37	0.53	0.00
Z08	258	n-258-55	53.81	0.05	1.16	0.72	2.98	0.09	16.58	23.60	0.58	0.01
Z08	258	n-258-56	52.97	0.01	2.01	0.38	4.89	0.18	15.55	23.17	0.48	0.00
Z08	258	n-258-57	53.11	0.23	2.03	1.32	3.08	0.09	15.65	22.82	1.01	
Z08	258	n-258-58	52.21	0.07	3.04	1.17	4.18	0.17	15.21	22.31	0.80	
Z08	258	n-258-61	53.18	0.17	1.27	0.73	8.92	0.22	17.62	17.21	0.57	0.01
Z08	258	n-258-62	53.45	0.00	1.35	0.57	3.90	0.16	16.10	23.05	0.58	
Z08	258	n-258-63	53.15	0.14	3.06	1.85	3.18	0.08	15.60	20.49	1.73	0.01
Z08	258	n-258-64	52.90	0.11	2.09	0.81	3.25	0.07	15.79	23.47	0.58	
Z08	258	n-258-65	52.91	0.10	2.27	1.01	2.85	0.06	16.20	22.66	0.65	
Z08	258	n-258-66	52.37	0.10	1.74	0.90	5.78	0.22	14.91	22.41	0.66	
Z08	258	n-258-67	53.21	0.08	1.07	0.55	4.01	0.12	15.93	23.24	0.54	
Z08	258	n-258-68	52.97	0.16	1.69	0.85	4.25	0.17	15.58	23.03	0.67	
Z09	239	n-239-10	51.91	0.17	2.84	0.62	4.87	0.11	15.02	23.06	0.63	
Z09	239	n-239-11	52.86	0.08	2.91	0.74	4.25	0.11	14.98	21.92	1.44	0.00
Z09	239	n-239-14	52.25	0.15	3.18	0.57	4.15	0.12	15.47	22.85	0.68	
Z09	239	n-239-15	53.08	0.17	1.56	0.70	4.83	0.14	15.39	22.96	0.63	0.01
Z09	239	n-239-16	52.42	0.26	2.47	1.09	3.73	0.12	15.35	23.20	0.71	0.01
Z09	239	n-239-18	51.94	0.21	3.31	1.19	5.86	0.18	18.81	17.88	0.24	0.00
Z09	239	n-239-19	53.00	0.08	2.00	0.95	3.00	0.11	16.03	23.47	0.51	0.00
Z09	239	n-239-19	53.00	0.08	2.00	0.95	3.00	0.11	16.03	23.47	0.51	0.00
Z09	239	n-239-20	52.47	0.14	2.45	0.55	5.01	0.14	15.23	22.98	0.58	0.00
Z09	239	n-239-21	52.51	0.08	3.10	0.61	3.06	0.09	15.87	23.34	0.58	0.01
Z09	239	n-239-22	52.83	0.09	2.13	0.87	4.46	0.17	15.37	22.97	0.68	
Z09	239	n-239-23	54.19	0.03	1.31	0.97	4.68	0.11	17.98	19.66	0.58	
Z09	239	n-239-24	52.78	0.36	2.40	1.09	3.22	0.08	15.64	23.40	0.74	
Z09	239	n-239-25	52.10	0.15	3.34	0.72	3.85	0.10	15.12	22.97	0.93	
Z09	239	n-239-26	53.01	0.07	2.25	1.14	3.11	0.08	16.07	23.24	0.67	
Z09	239	n-239-30	52.03	0.39	3.52	0.82	3.94	0.13	14.93	22.92	0.91	0.01
Z09	239	n-239-32	52.49	0.15	3.12	1.47	2.85	0.04	15.64	23.02	0.81	0.00
Z09	239	n-239-46	53.47	0.19	1.87	0.81	3.08	0.08	15.92	23.29	0.82	
Z09	239	n-239-47	53.42	0.05	1.42	0.95	3.08	0.12	16.00	23.32	0.71	
Z09	239	n-239-49	52.64	0.14	2.62	1.03	3.31	0.10	15.59	23.35	0.69	0.00
Z09	239	n-239-50	52.13	0.33	2.78	1.14	3.84	0.15	15.16	22.99	0.73	0.00
Z09	239	n-239-51	52.72	0.08	2.46	1.22	3.03	0.08	15.76	23.35	0.66	0.00
Z09	239	n-239-52	52.54	0.13	2.26	1.35	2.72	0.09	16.02	23.15	0.63	0.01
Z09	239	n-239-53	53.50	0.01	1.01	0.87	3.19	0.12	16.27	23.56	0.63	0.00
Z09	239	n-239-55	53.30	0.05	1.79	1.23	4.43	0.13	17.11	21.15	0.53	0.01
Z09	239	n-239-56	53.13	0.19	1.77	1.15	2.39	0.06	16.31	23.67	0.57	0.00
Z09	239	n-239-57	53.10	0.02	1.58	0.74	4.02	0.14	15.82	23.26	0.62	0.01
Z09	239	n-239-58	52.50	0.11	2.62	0.89	3.97	0.12	15.37	23.07	0.70	
Z09	239	n-239-61	53.20	0.05	1.72	1.20	3.14	0.11	15.86	23.49	0.65	
Z09	239	n-239-62	52.37	0.22	2.29	1.18	3.11	0.10	15.70	23.39	0.61	0.01
Z09	239	n-239-63	53.30	0.07	1.66	1.33	2.91	0.07	16.02	23.37	0.66	
Z09	239	n-239-64	53.06	0.16	1.91	1.17	3.63	0.11	15.55	22.93	0.70	
Z09	239	n-239-65	53.49	0.20	1.99	1.59	2.80	0.03	15.68	22.83	0.91	0.00

Appendix. Clinopyroxene mineral chemistry

Field	Lab	Grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	K2O
Z09	239	n-239-69	53.36	0.21	1.79	1.13	2.90	0.11	16.02	23.49	0.71	
Z09	239	n-239-70	52.26	0.14	3.19	1.10	3.37	0.11	15.18	23.19	0.82	
Z09	239	n-239-71	52.53	0.16	2.04	1.50	3.03	0.09	15.86	23.27	0.71	0.01
Z09	239	n-239-72	53.67	0.02	1.40	0.98	3.00	0.11	16.13	23.38	0.72	0.02
Z09	239	n-239-73	52.45	0.19	3.40	1.08	2.64	0.07	15.89	23.39	0.60	0.01
Z09	239	n-239-74	52.51	0.20	3.18	0.64	3.82	0.10	15.30	23.06	0.89	0.01
Z09	239	n-239-75	52.70	0.06	1.70	0.80	4.15	0.12	15.49	23.20	0.70	0.01
Z09	239	n-239-76	53.94	0.07	1.18	0.99	3.07	0.12	16.23	22.76	1.07	0.02
Z09	239	n-239-77	53.43	0.01	1.37	1.23	2.78	0.07	16.15	23.37	0.69	
Z09	239	n-239-78	53.28	0.10	1.18	1.26	3.38	0.08	16.33	22.53	0.71	0.00
Z09	239	n-239-79	52.33	0.20	3.48	1.04	3.08	0.10	15.50	23.15	0.71	
Z09	239	n-239-80	52.41	0.15	2.35	1.17	4.18	0.16	15.34	23.11	0.64	0.01
Z09	239	n-239-81	52.14	0.18	2.87	0.78	3.38	0.09	15.56	23.28	0.71	0.02
Z09	239	n-239-82	52.73	0.12	1.76	1.10	4.19	0.15	15.63	22.51	0.64	0.01
Z09	239	n-239-83	52.20	0.08	3.26	0.61	3.52	0.09	15.48	23.37	0.70	0.01
Z09	239	n-239-84	52.79	0.08	1.76	0.86	3.95	0.11	15.57	23.24	0.61	
Z10	26	n-26-01	52.57	0.07	1.78	0.71	5.61	0.22	15.10	22.33	0.72	0.01
Z10	26	n-26-03	54.50	0.06	1.50	0.74	3.75	0.09	18.13	19.64	0.59	0.09
Z10	26	n-26-04	53.19	0.09	1.41	1.30	3.54	0.05	15.90	22.67	0.82	0.01
Z10	26	n-26-04	53.19	0.09	1.41	1.30	3.54	0.05	15.90	22.67	0.82	0.01
Z10	26	n-26-04	53.33	0.16	1.51	0.70	3.67	0.11	16.36	23.25	0.51	0.01
Z10	26	n-26-05	53.74	0.04	0.76	0.36	4.56	0.18	15.69	23.80	0.46	0.00
Z10	26	n-26-06	53.55	0.03	1.12	0.35	4.52	0.18	15.46	23.37	0.71	0.00
Z10	26	n-26-07	53.66	0.07	0.71	0.36	4.79	0.13	15.71	23.61	0.45	0.02
Z10	26	n-26-08	53.31	0.09	1.63	0.81	4.25	0.08	16.34	22.69	0.56	0.00
Z11	262	n-262-03	51.95	0.16	5.16	1.43	3.07	0.08	15.66	20.24	1.49	0.00

Appendix. Ilmenite mineral chemistry

Field	Lab	Grain	Sc	V	Cr	Mn	Co	Ni	Cu	Zn	Ga	Ge	Zr	Nb	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO
K05	21	na-21-01	63	949	1178	1984	94	236	4	128	1	5	422	305	0.0	49.8	0.1	0.3	45.1	0.4	3.1
K05	21	na-21-07	58	2844	1300	3635	159	81	8	279	1	6	223	96	0.0	53.4		0.2	42.8	0.5	2.5
K05	21	na-21-08	80	1269	512	3227	156	211	8	236	2	7	137	462	0.0	50.8	0.0	0.1	45.7	0.4	2.2
M05	29	na-29-05	14	385	192	530	20	24	2	35	1	1	185	30	0.0	50.8	0.0	0.1	46.4	0.4	1.4
N09	32	na-32-06	10	130	27	735	31	6	1	52	0	1	94	45		49.4	0.0	0.0	47.6	0.6	1.8
N09	32	na-32-05	94	2374	2046	3169	185	207	8	218	2	7	349	66	0.0	50.4	0.1	0.3	44.9	0.4	3.2
N09	32	na-32-01	114	1046	1	3970	180	34	8	109	1	7	171	31	0.0	52.0	0.0	0.0	44.4	0.5	2.7
L06E	40	n-40-13	82	2249	269	2991	155	147	6	187	3		304	86	0.0	48.8	0.1	0.1	46.5	0.4	2.8
S04	79	na-79-09	253	992	2304	4245	103	59	8	270	0	7	63	58	0.0	51.8		0.3	42.5	0.5	4.5
I03	87	n-87-01	26	1782	1938	2034	160	277	20	137	15	8	392	1262	0.0	49.1	0.4	0.4	39.5	0.3	8.5
W05	100	n-100-05	20	824	26117	2245	158	1402	22	90	3	5	97	849	0.0	52.8	0.1	5.0	28.3	0.4	12.8
T07	117	n-117-12	18	924	20535	1463	111	929	18	76	4	3	91	538	0.0	51.1	0.2	5.2	30.1	0.3	11.8
K08	121	n-121-03	87	2616	1418	3629	146	343	7	204	2	9	92	117	0.0	50.1	0.0	0.3	45.4	0.5	2.3
K08	121	n-121-05	79	2571	441	3267	101	66	13	129	2	9	414	112	0.0	49.8	0.0	0.1	45.4	0.4	2.6
K08	121	n-121-10	89	1547	272	3562	145	143	7	177	1	9	318	104	0.0	49.3	0.1	0.0	46.1	0.5	2.2
Z02	160	n-160-01	21	1353	15941	2525	157	970	28	120	6	6	109	649	0.0	51.6	0.1	2.7	32.5	0.4	11.0
O07	182	n-182-13	79	1720	252	3362	112	67	6	312	5	9	133	285		49.9	0.0	0.0	46.9	0.5	1.1
N06	202	n-202-01	93	3728	30	2995	161	373	15	258	8	8	786	117	0.0	48.5	0.1	0.0	46.1	0.4	2.9
N06	202	n-202-02	70	2176	1106	2581	52	31	49	300	12	5	85	144	0.3	66.9	0.2	0.4	23.3	0.3	0.7
N06	202	n-202-05	73	1528	361	3701	97	66	9	134	2	10	66	146	0.0	50.9		0.0	47.0	0.5	0.8
O06	207	n-207-01	94	1769	959	4338	143	182	7	205	3	10	303	69	0.0	50.7	0.3		45.1	0.5	2.6
O06	207	n-207-11	126	1253	1600	3756	114	230	24	95	16	7	196	339	0.1	57.6	0.1	0.2	32.2	0.6	3.0
Z16	214	n-214-01	18	1050	18512	2892	196	1245	43	143	6	7	86	806	0.1	53.2	0.2	2.7	30.6	0.4	11.9
V06	227	n-227-01	19	1048	14592	2389	167	842	39	126	6		113	776	0.0	51.9	0.2	2.4	32.9	0.3	11.0
F09	229	n-229-03	79	1888	30	3217	130	129	7	205	3	8	770	206	0.0	50.5	0.0	0.0	44.2	0.5	2.6
F09	229	n-229-05	66	1472	333	3456	129	176	7	184	3	8	628	302		50.5	0.1	0.1	45.1	0.4	2.2

Appendix. Garnet mineral chemistry

Field	Lab	grain	T(Ni) C	P(Cr) kB	Sc/Y	Sc	Ti	V	Co	Ni	Ga	Sr	Y	Zr	Nb	La1	Ce1	Pr1	Nd1	Sm1	Eu1	Gd1	Dy1	Ho1	Er1	Yb1	Lu1	Hf	
C04	6	na-06-09	1351	45.6	6.6	110.1	4654.8	287.9	42.8	111.0	11.8	0.9	16.6	99.0		0.8	0.4	3.3	1.1	0.8	3.5	2.6	0.7	2.4		0.3	3.4		
G10	22	na-22-01	1413	36.4	7.3	101.1	3200.4	299.1	51.0	125.2	11.8	0.6	13.8	39.8	0.3	0.0	0.4	0.1	1.4	0.8	0.4	1.5	2.2	0.5	1.5	1.6	0.3	1.1	
I08	73	n-73-09	1340	33.1	3.3	94.2	4595.7	273.5	49.2	108.6	14.7	0.6	28.3	78.2	0.3	0.1	0.5	0.2	1.3	0.9	0.5	2.1	4.3	1.2	3.6	4.1	0.6	2.2	
S04	79	na-79-10	1407	39.8	6.0	117.8	3772.9	320.2	51.5	123.7	10.3	0.9	19.7	52.5	0.3	0.1	0.6	0.2	1.8	1.1	0.5	2.1	3.3	0.8	2.2	2.4	0.4	1.4	
G03	94	n-94-12	995	44.7	85.2	146.4	217.5	332.5	42.6	44.5	4.8	0.9	1.7	32.4	1.4	0.2	1.7	0.6	4.5	1.6	0.4	0.9	0.4	0.1	0.2	0.3	0.1	0.5	
H04	105	n-105-01	868	34.0	5.1	91.4	1054.4	167.6	43.8	28.0	9.8	0.2	17.9	19.8	0.1	0.0	0.1	0.0	0.5	0.5	0.3	1.6	2.7	0.7	2.0	2.2	0.3	0.3	
D05	106	n-106-01	1004	46.5	63.2	154.6	524.8	391.2	42.8	45.9	4.1	0.8	2.4	29.2	0.4	0.1	1.3	0.6	5.6	1.3	0.4	0.8	0.4	0.1	0.3	0.4	0.1	0.6	
K08	121	n-121-02	771	33.7	10.8	158.1	275.4	158.2	39.9	18.2	3.6	0.1	14.7	9.6	0.1	0.0	0.1	0.1	0.5	0.4	0.2	1.1	2.3	0.5	2.0	2.3	0.4	0.2	
O10	162	n-162-06	447		0.5	14.9	1423.9	690.1	3.3	1.9	33.2	0.0	31.1	26.9	0.1		0.0	0.0	0.3	0.3	0.2	0.9	2.8	0.8	3.4	4.3	0.7	1.7	
J07	204	n-204-08	795	31.7	6.1	87.0	865.2	172.9	47.1	20.4	10.7		14.2	5.9	0.1		0.0			0.2	0.1	0.8	2.1	0.5	1.6	2.1	0.3	0.1	
B05	240	n-240-01	961	42.6	13.7	122.7	932.1	227.2	44.0	39.7	8.1	0.3	9.0	31.4	0.3	0.0	0.6	0.2	1.9	1.2	0.5	1.8	1.8	0.3	0.9	1.1	0.2	0.6	
F08B	264	n-264-01	1270	46.2	12.7	127.0	3049.9	332.6	43.6	93.7	9.8	0.7	10.0	42.9	0.3	0.0	0.5	0.2	2.0	1.3	0.5	1.8	1.9	0.4	1.0	1.1	0.2	1.1	
H09	271	n-271-07	1265	47.7	15.6	131.5	2893.4	356.7	46.0	92.5	9.6	0.4	8.4	39.3	0.3		0.3	0.1	1.0	1.0	0.6	1.7	1.5	0.3	1.1	1.1	0.2	1.0	
Field	Lab	grain	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O	La2	Ce2	Pr2	Nd2	Sm2	Eu2	Gd2	Dy2	Ho2	Er2	Yb2	Lu2						
C04	6	na-06-09	G11	41.51	0.84	18.16	5.44	6.98	0.23	20.97	5.40	0.08		1.3	4.5	7.3	7.7	13.6	17.8	10.6	12.2	15.2		13.2					
G10	22	na-22-01	G1	41.82	0.52	20.13	2.99	7.10	0.25	21.58	5.01	0.04	0.2	0.7	1.7	3.0	5.6	7.3	7.5	9.0	9.2	9.6	10.0	12.5					
I08	73	n-73-09	G1	41.89	0.79	20.53	2.41	8.16	0.28	21.40	4.95	0.06	0.2	0.8	1.7	3.0	6.4	9.1	10.8	17.5	21.0	22.7	25.2	24.2					
S04	79	na-79-10	G1	41.46	0.64	19.09	3.81	7.92	0.28	20.71	5.28	0.04	0.3	1.1	2.3	4.1	7.6	9.5	10.8	13.4	13.9	13.7	14.7	16.4					
G03	94	n-94-12	G9+	41.28	0.03	18.60	6.76	7.29	0.37	19.94	6.16	0.02	0.7	2.8	6.4	10.0	10.8	6.9	4.7	1.5	1.4	1.6	2.1	3.3					
H04	105	n-105-01	G9	42.27	0.17	21.33	2.96	8.25	0.42	20.48	4.56	0.06	0.0	0.2	0.4	1.1	3.3	5.6	8.0	11.2	12.2	12.8	13.4	13.3					
D05	106	n-106-01	G9+	41.18	0.05	18.20	7.50	6.96	0.38	20.11	5.96	0.05	0.4	2.2	7.0	12.3	9.1	6.9	4.0	1.8	1.7	1.6	2.5	2.5					
K08	121	n-121-02	G7	41.92	0.04	20.80	3.79	8.65	0.54	18.74	6.47	0.00	0.2	0.2	0.6	1.1	2.9	3.3	5.6	9.5	9.0	12.8	13.8	15.0					
O10	162	n-162-06	Cr-grossularite	37.39	0.25	15.74	5.31	5.40	5.59	0.18	28.50	0.00		0.0	0.2	0.6	2.1	2.9	4.3	11.5	15.2	21.5	26.7	29.6					
J07	204	n-204-08	G9	41.53	0.15	21.37	2.69	9.47	0.48	19.93	4.65	0.03		0.0			1.7	2.3	4.3	8.8	9.5	10.1	13.0	12.7					
B05	240	n-240-01	G9	41.07	0.16	18.94	5.60	7.58	0.35	19.99	5.47	0.04	0.2	1.1	2.5	4.1	7.8	9.3	9.1	7.3	5.8	5.6	6.6	7.3					
F08B	264	n-264-01	G11	41.54	0.50	18.38	5.95	6.23	0.28	20.72	5.70	0.06	0.1	0.9	2.2	4.5	8.6	9.0	9.1	8.0	6.9	6.2	7.0	8.1					
H09	271	n-271-07	G11	41.58	0.48	17.74	7.11	7.44	0.29	20.01	6.17	0.04		0.5	1.4	2.2	7.0	9.8	8.6	6.3	6.1	7.1	6.7	9.9					

Appendix. Chromite mineral chemistry

Field	Lab	Grain	T(Zn) C	nweighted, with Mn	Yao-CART	Sc	Ti	V	Mn	Co	Ni	Cu	Zn	Ga	Ge	Zr	Nb	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O
A02	168	n-168-01	660	GG-5	Kim	1.5	1085.4	704.2	2602.0	502.1	314.9	0.5	1968.1	10.3	4.2	0.3	0.8	0.0	0.2	9.1	54.2	27.7	0.5	6.7		0.0
A03	68	n-68-02	795	GG-7	OM	9.5	3745.5	1526.1	3443.2	383.3	668.5		1165.8	53.5	6.8	0.8	0.7	0.0	0.7	16.9	41.1	33.5	0.6	5.7	0.0	0.0
A03	68	n-68-03	720	GG-5	OM	7.7	4861.7	1911.1	6818.9	474.0	686.0	1.2	1531.4	61.4	7.5	3.3	0.8	0.0	0.9	15.9	42.8	32.7	0.9	3.2	0.0	0.0
A04	35	n-35-01	664	GG-7	UML	0.4	1953.4	924.9	2552.8	442.9	450.8		1929.8	63.3	5.8	0.3	0.7	0.0	0.3	24.2	37.9	29.3	0.4	6.8		0.0
A04	35	n-35-02	846	GG-7	Kim	8.8	3984.4	1612.8	2378.0	399.6	1127.9		990.6	64.4	7.0	6.7	1.5		0.3	24.0	37.8	29.3	0.4	6.9	0.0	0.1
A04	35	n-35-03	1074	GG-7	UML	1.6	2749.8	1349.8	1962.5	220.0	1249.3	1.6	553.5	46.3	4.3	0.4	0.7	0.0	0.5	18.3	44.3	23.7	0.3	10.8		0.0
A08	119	n-119-05	1029	GG-7	UML	2.9	3248.2	1133.8	2247.8	309.0	839.6	0.8	611.0	46.9	5.7	0.3	0.6	0.0	0.6	18.8	41.3	29.9	0.4	8.0	0.0	0.0
A08	119	n-119-07	1229	GG-7	OM	4.6	2510.1	952.9	1817.4	211.4	437.5	1.2	412.4	38.3	4.5	1.2	0.8	0.0	0.4	14.0	51.3	21.8	0.3	11.0	0.0	0.0
A08	119	n-119-08	809	L-4	OM	12.1	11816.2	2017.2	2585.7	313.0	966.2	0.7	1113.2	65.2	7.0	3.6	0.7	0.0	2.2	14.4	37.7	36.2	0.4	6.9	0.0	0.0
A08	119	n-119-09	428	GG-5	Kim	1.9	4250.7	1455.4	2617.2	272.6	59.2		7701.0	32.3	4.6	3.1	1.8	0.1	1.2	13.9	51.6	23.9	0.4	7.0	0.0	0.0
A09	241	n-241-01	566	GG-5	OM	3.2	3065.8	1161.4	5733.3	524.6	472.7		3113.9	33.4	5.5	0.6	0.7	0.0	0.6	10.5	49.0	30.4	0.8	5.8		
A10	133	n-133-02	969	GG-7	UML	5.3	3608.5	1552.7	2108.4	310.5	728.5	0.8	705.2	56.8	5.8	0.3	0.6	0.0	0.7	18.3	40.5	29.8	0.4	8.5		0.0
A10	133	n-133-03	501	GG-5	OM	2.7	2584.6	1113.2	4336.9	894.8	243.1		4589.8	4.8	5.3	0.6	0.8		0.3	15.5	49.0	25.0	0.7	7.9		0.0
A11	5	n-5-02	838	GG-7	UML	7.3	5568.1	1543.0	2527.1	260.0	493.4	2.5	1017.3	50.6	6.1	2.1	1.1	0.0	1.0	9.8	47.9	32.5	0.4	6.0	0.0	0.0
A11	5	n-5-03	925	GG-5	Kim	1.4	1363.5	1042.6	2600.5	389.2	438.0	10.0	790.8	21.7	3.1	0.7	1.2	0.1	0.2	12.4	58.3	15.0	0.5	12.5	0.0	0.0
A11	5	n-5-04	851	GG-7	OM	7.9	4181.5	1574.6	2686.2	374.5	741.1	0.5	976.5	52.1	6.5	0.8	0.9	0.0	0.8	16.7	39.8	34.9	0.4	5.7		0.0
A11	5	n-5-05	626	GG-5	OM	0.4	936.9	601.9	2747.5	540.9	350.9	0.4	2302.5	5.4	4.7	0.1	0.8	0.0	0.2	5.4	51.2	35.4	0.6	4.1		0.0
A11	5	n-5-06	604	GG-5	Kim	0.7	1068.8	581.7	3655.2	653.3	305.5	0.5	2553.2	9.6	4.8	1.2	1.1	0.0	0.2	9.7	53.9	27.1	0.6	6.3		0.0
B02	118	n-118-01	894	GG-7	OM	4.4	5773.8	1369.9	3037.2	305.6	1043.4		860.2	48.1	7.0	0.4	0.7	0.0	1.1	13.4	41.6	36.2	0.5	4.9		0.0
B03	82	n-82-01d	820	L-4	UML	4.2	6278.3	1695.4	2302.6	415.3	805.0	1.5	1077.1	62.0	6.3	0.6	0.7	0.0	1.1	18.5	41.9	29.4	0.4	8.4	0.0	0.0
B04	91	n-91-06	1211	GG-7	UML	5.0	1994.4	993.4	1732.0	260.0	843.9	1.2	425.3	42.7	5.0	0.6	0.7	0.0	0.4	18.5	45.8	22.7	0.3	11.7		0.0
B04	91	n-91-08	1414	GG-7	UML	6.7	2250.3	655.7	1208.9	192.8	1463.2	7.7	311.4	33.7	3.8	0.5	0.9	0.1	0.4	14.6	50.3	17.9		14.0	0.0	0.0
B05	240	n-240-02	861	L-4	Kim	2.5	12499.8	2075.0	2524.8	334.7	1029.9	0.8	946.6	77.6	7.5	0.4	2.3		2.3	15.8	33.6	38.9	0.4	6.1		0.0
B05	240	n-240-03	575	GG-5	Kim	2.5	691.7	532.0	3098.9	572.4	231.6		2967.2	7.7	5.5	0.7	0.8	0.0	0.1	8.7	54.8	27.3	0.5	6.0		
B06	153	n-153-04	920	GG-7	UML	6.1	4093.9	1399.6	2650.8	446.2	1155.7	1.0	800.8	61.7	8.0	0.6	1.0	0.0	0.3	24.1	40.2	24.9	0.4	8.6	0.0	0.0
B06	153	n-153-05	734	GG-7	UML	0.7	1682.9	1340.4	1655.6	395.3	334.7		1453.1	37.7	3.8	0.2	0.5	0.0	0.5	18.1	44.3	24.7	0.4	10.1		0.0
B10	11	n-11-01	1317	GG-7	UML	25.1	2023.9	834.5	1260.6	213.5	899.5	1.6	358.0	39.2	3.0	2.3	0.9	0.0	0.2	17.3	52.3	14.1	0.2	14.9	0.0	
B10	11	n-11-02	783	GG-7	UML	5.3	2984.9	1073.3	1396.8	259.5	789.7	9.0	1218.2	42.5	4.5	0.6	1.0	0.1	0.5	11.6	53.1	22.3	0.3	10.3		
B11	56	n-56-01	1170	L-4	UML	3.1	7097.6	806.3	1118.6	191.2	1554.5	10.8	458.2	77.9	4.2	1.0	0.8	0.1	1.2	26.8	35.6	19.1	0.2	16.0	0.0	0.0
B11	56	n-56-02	1127	GG-7	UML	6.5	3800.7	1494.9	2767.4	219.6	888.8	0.7	496.6	53.2	5.4	0.3	0.8		0.7	18.0	42.5	27.9	1.0	8.6	0.0	
B12	173	n-173-01	1097	GG-7	UML	9.5	3450.1	1421.2	2280.2	308.5	659.6	0.5	527.4	48.4	5.8	2.2	0.7	0.0	0.6	17.3	41.1	30.8	0.4	7.6		0.0
C03	51	n-51-01	1136	GG-7	UML	5.1	2562.8	975.9	2101.7	289.5	771.9	1.4	488.2	39.3	5.6	0.7	0.7	0.0	0.4	17.5	44.8	26.9	0.4	8.7		0.0
C04	6	n-6-08	561	GG-5	Kim	2.7	1199.5	722.5	3093.9	521.5	325.9	0.6	3205.2	9.5	4.6	0.5	0.9	0.0	0.2	9.8	53.7	27.3	0.6	6.7	0.0	0.2
C05a	93	n-93-01	598	GG-5	Kim	0.5	947.8	627.3	2950.2	584.1	342.7	0.6	2630.5	8.2	5.0	0.5	0.9	0.0	0.2	10.1	53.5	27.4	0.5	6.8		0.0
C05a	93	n-93-02	847	L-4	OM	8.8	12873.6	1982.3	3295.1	334.6	821.3	0.8	986.8	60.9	7.6	1.4	0.9		2.2	16.3	36.7	36.7	0.4	5.6		
C05b	46	n-46-01	547	GG-5	Kim	2.1	875.4	678.1	3308.3	614.9	503.1		3468.2	29.4	6.8	0.3	0.9	0.0	0.2	8.6	50.5	32.9	0.5	5.4		0.0
C05b	46	n-46-02	1024	GG-3	UML	3.2	1340.5	1231.1	3192.0	304.9	282.1	0.6	617.7	50.3	5.5	0.6	0.9	0.0	0.2	18.0	45.2	25.9	0.6	8.0	0.0	0.0
C05b	46	n-46-03	731	GG-5	OM	5.7	959.7	821.7	2639.3	562.2	248.2	0.8	1466.4	19.1	5.6	0.5	1.0	0.1	0.2	10.4	56.6	25.5	0.5	5.6		0.0
C06	237	n-237-01	1503	GG-7	UML	2.4	1195.9	688.3	1229.7	188.4	851.3	1.3	277.8	35.5	2.9		0.9	0.0	0.2	16.3	53.1	14.2	0.3	14.7		0.0
C06	237	n-237-02	526	GG-5	UML	1.0	2512.6	952.5	3103.5	752.6	536.0		3918.2	30.0	5.2	0.3	0.7	0.0	0.4	18.3	45.8	25.5	0.5	7.4		0.0
C07	145	n-145-01	873	K-1	Kim	6.1	20601.6	2230.6	2263.2	206.7	1456.6	10.4	913.1	139.5	8.4	14.3	8.7	0.1	3.6	5.2	43.4	35.9	0.4	8.3	0.0	0.0
C08	136	n-136-07	1018	GG-7	UML	3.3	3734.6	1611.9	2137.7	299.3	805.8	0.5	626.6	56.5	5.9	0.4	0.7	0.0	0.6	18.9	40.9	27.7	0.4	9.8		
C10	210	n-210-01	902	GG-5	Kim	3.3	1138.7	864.5	1799.0	363.2	435.5	5.3	841.2	25.4	3.7	0.5	0.9	0.0	0.2	12.0	56.2	17.8	0.3	11.1	0.0	
C10	210	n-210-03	908	GG-7	OM	3.6	1387.1	725.3	1659.8	333.1	508.9	1.1	826.5	25.5	2.8	0.4	0.8	0.1	0.2	13.7	55.8	15.9	0.3	12.1		
C10	210	n-210-05	805	L-6	Kim	4.4	9337.3	1347.9	4201.4	246.2	317.0	0.6	1128.9	51.6	6.2	16.0	1.7	0.0	1.4	15.0	41.0	34.3	0.7	4.3	0.0	
C10	210	n-210-06	1368	GG-7	UML	7.0	2346.0	634.0	1259.0	198.5	1490.7	8.9	332.0	34.7	3.6	0.5	0.9	0.1	0.4	14.0	51.2	18.7	0.2	13.4		0.0

Appendix. Chromite mineral chemistry

Field	Lab	Grain	T(Zn) C	nweighted, with Mn	Yao-CART	Sc	Ti	V	Mn	Co	Ni	Cu	Zn	Ga	Ge	Zr	Nb	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O
C10	210	n-210-08	1179	GG-7	OM	6.3	2268.7	640.7	1497.1	210.2	1128.6	10.1	450.9	34.1	4.6	0.4	0.8	0.1	0.4	13.6	49.5	22.3	0.3	10.9	0.0	0.0
C10	210	n-210-09	690	GG-5	OM	2.1	3721.1	1193.2	4850.6	454.5	475.1	0.5	1730.1	40.4	7.4	1.2	0.7	0.0	0.4	15.4	41.1	34.8	0.7	4.2	0.0	0.0
C10	210	n-210-10	977	GG-7	OM	8.1	3259.6	1386.7	2528.1	307.1	635.2	0.7	691.0	53.1	6.4	0.4	0.6	0.0	0.6	17.1	39.2	32.9	0.4	6.6		
C11	169	n-169-02	924	GG-5	OM	6.6	3618.4	1394.7	4264.0	259.2	176.4	0.4	792.7	47.3	6.7	2.8	0.8	0.1	0.7	16.1	41.5	35.0	0.7	4.6	0.0	0.0
C12	166	n-166-02	1182	GG-7	UML	3.3	2409.8	1242.2	1523.4	234.5	939.8	1.7	448.3	43.2	5.3	0.3	0.8	0.0	0.4	17.7	46.7	21.5	0.3	12.1	0.0	0.0
C12	166	n-166-03	1020	K-1	Kim	9.9	36516.6	1192.5	2247.7	244.8	741.1	6.8	624.1	44.5	9.0	7.4	2.2	0.0	6.7	8.3	33.6	38.7	0.4	10.4		
C12	166	n-166-04	732	GG-5	Kim	1.0	753.3	686.3	2587.1	544.9	290.6	1.0	1463.3	16.4	5.4	0.2	0.9	0.0	0.1	9.1	55.2	25.9	0.5	7.0	0.0	0.0
D02	143	n-143-03	747	GG-7	UML	3.0	3617.4	1626.7	2354.4	391.4	982.9	0.9	1385.1	64.8	7.5	0.2	0.6		0.6	18.3	36.2	35.0	0.4	6.8		0.0
D04	9	n-9-08	829	GG-7	UML	5.8	5333.9	1370.5	2419.9	382.1	908.4	1.5	1043.9	47.8	5.8	0.4	0.7	0.0	1.0	17.5	38.9	34.6	0.5	5.2	0.0	0.0
D04	9	n-9-12	1352	L-2	UML	7.7	1762.7	753.9	1594.5	203.9	1344.6	8.2	339.8	26.5	3.3	0.7	1.0	0.1	0.3	11.9	55.8	16.9	0.2	13.5	0.0	0.0
D04	9	n-9-14	642	GG-5	Kim	3.0	425.0	775.4	2762.0	479.6	227.8	0.4	2130.4	22.0	4.6	0.2	1.1		0.1	7.0	58.2	25.8	0.4	7.0	0.0	0.0
D06	3	n-3-01	921	GG-7	UML	0.2	1399.1	2190.3	2353.4	287.0	762.0	0.8	798.1	77.7	6.6	0.3	0.8	0.0	0.1	27.0	32.9	33.7	0.3	4.3		0.0
D06	3	n-3-02	1171	GG-5	OM	5.0	4603.5	1428.5	2762.5	270.2	766.2	0.5	457.5	41.9	5.8	0.6	0.8	0.0	0.8	16.1	42.4	31.2	0.5	6.9	0.0	
D09	139	n-139-02	759	GG-7	OM	4.5	3428.5	1578.1	2862.2	337.3	1097.4	0.6	1324.1	54.5	6.8	0.5	0.7		0.6	17.2	37.7	36.3	0.5	4.8	0.0	0.0
D11	39	n-39-01	688	GG-5	OM	1.5	1287.8	631.7	2574.9	246.5	731.7	6.9	1740.1	36.4	5.9	0.2	0.8	0.0	0.3	16.9	43.9	30.0	0.4	7.6		0.0
D11	39	n-39-02	1372	GG-7	OM	3.6	1454.9	799.9	1546.1	211.9	903.5	0.9	330.1	41.9	3.1	0.2	1.0	0.0	0.2	17.4	52.6	14.3	0.3	14.5	0.0	
D11	39	n-39-03	979	GG-7	UML	3.0	1520.5	1081.6	1918.8	270.7	526.5	0.7	687.4	40.7	4.5	0.7	0.8	0.0	0.3	18.0	47.0	23.1	0.4	10.2		0.0
D12	225	n-225-01	1353	GG-7	OM	5.2	1869.2	764.9	1825.2	224.9	821.0	5.5	339.4	35.5	4.5	0.7	0.8	0.0	0.3	18.2	47.3	20.6	0.3	10.7		0.0
D12	225	n-225-02	956	L-4	UML	3.2	5889.2	1587.1	1502.3	247.6	1022.8	1.2	729.2	67.8	5.6	0.4	0.7		1.1	19.5	40.2	27.7	0.3	8.1	0.0	0.0
E02	92	n-92-01d	1369	GG-7	OM	3.1	1324.8	779.3	1660.7	202.2	1107.2	1.0	331.8	38.7	3.0		0.9	0.0	0.2	17.3	50.7	14.3		14.8	0.0	0.0
E02	92	n-92-02	1071	GG-7	UML	5.2	2681.4	971.9	2001.9	268.8	653.5	1.1	556.9	40.8	4.6	4.6	0.9	0.0	0.5	14.3	50.9	22.5	0.3	9.8	0.0	0.0
E04	186	n-186-02	1058	K-1	OM	10.0	694.2	384.3	2006.3	339.3	461.6	1.5	572.8	14.1	4.0	0.2	1.1	0.0	0.1	5.6	62.0	19.4	0.4	10.8		0.0
E04	186	n-186-03	1055	GG-7	UML	3.9	3283.6	1269.4	2463.9	292.6	1145.1	0.5	576.4	50.6	5.1	0.1	0.7		0.6	17.9	40.4	32.4	0.4	6.2		0.0
E04	186	n-186-05	725	GG-5	Kim	0.4	1119.4	774.4	2846.3	585.7	258.0	0.3	1505.5	10.3	4.5	0.7	0.9	0.0	0.2	8.4	56.1	27.0	0.5	6.7		0.0
E04	186	n-186-06	743	GG-5	OM	0.6	1992.4	890.0	2915.8	495.6	338.5	0.6	1405.0	15.0	5.2	0.9	0.8	0.0	0.3	11.3	51.7	28.4	0.5	6.1		0.0
E05	61	n-61-02	864	GG-7	UML	4.1	4904.1	1268.2	3293.4	677.3	874.8		937.1	52.8	6.4	0.3	0.7	0.0	0.5	17.9	40.8	32.5	0.5	5.6		0.0
E05	61	n-61-03	732	GG-3	UML	0.2	264.9	533.7	1736.6	584.7	1300.9		1465.7	93.1	5.1		0.5	0.0	0.1	33.4	28.8	24.7	0.3	11.2	0.0	0.0
E05	61	n-61-04	342	GG-5	UML	2.5	852.6	855.3	16386.0	304.9	155.7		16494.1	15.5	6.7	0.1	1.0	0.0	0.1	5.0	51.1	35.4	2.6	1.2	0.0	0.1
E06	12	n-12-01	958	K-1	Kim	10.6	15543.2	914.8	4414.8	270.3	851.5	2.5	725.3	36.0	6.1	11.9	1.4	0.0	2.7	8.8	42.9	32.5	0.7	10.5		
E09	181	n-181-01	918	GG-5	Kim	1.9	1322.5	853.9	3498.3	327.5	617.4	0.7	805.9	32.6	5.7	0.4	1.0	0.1	0.2	9.5	53.8	28.7	0.6	5.4	0.0	0.0
E10	101	n-101-01	1191	GG-7	OM	3.0	1295.0	770.1	1741.3	218.3	790.4	1.2	440.6	33.9	3.1	0.3	0.8	0.0	0.1	14.4	54.5	16.4	0.4	13.6	0.0	0.0
F02	185	n-185-13	805	GG-5	Kim	2.1	774.7	556.9	2680.2	432.5	398.3	1.8	1129.3	13.5	5.2	0.3	0.9	0.1	0.1	9.9	54.0	26.8	0.5	6.6	0.0	0.0
F02	185	n-185-14	598	GG-5	Kim	0.4	706.9	556.4	2188.9	509.1	349.0	0.4	2635.1	10.3	4.4	0.3	0.7	0.1	0.0	11.6	47.7	31.3	0.5	6.5		0.0
F02	185	n-185-15	1228	GG-7	UML	3.2	3213.7	1089.3	1650.4	231.4	930.6	1.5	413.5	47.1	4.3	0.2	0.8		0.6	18.9	45.0	22.5	0.3	11.6		0.0
F02	185	n-185-16	794	L-6	OM	6.7	8829.2	1842.2	4711.8	435.8	642.6	0.4	1170.3	61.5	8.1	2.1	1.3	0.0	1.4	13.7	39.7	40.2	0.8	2.3		0.0
F03	198	n-198-01	1389	GG-7	OM	5.8	1765.1	763.1	1652.8	212.8	887.4	1.6	322.4	38.5	4.7	0.4	0.7	0.0	0.3	18.1	47.0	19.5	0.3	12.8	0.0	0.0
F03	198	n-198-02	1118	K-1	Kim	7.2	20292.8	804.8	1961.4	227.1	986.0	6.5	505.6	32.3	6.2	4.3	1.5	0.1	3.8	7.8	42.5	30.8	0.3	11.2		0.0
F03	198	n-198-03	958	L-6	OM	3.8	7056.4	1292.2	3553.2	274.5	562.8	0.8	724.1	51.6	7.3	2.1	0.7	0.0	1.3	15.1	40.6	34.4	0.6	5.6	0.0	
F04	211	n-211-01	770	GG-5	Kim	2.8	397.6	423.7	3398.2	375.3	516.9		1272.3	10.9	5.0		0.6	0.0	0.1	3.9	51.2	36.8	0.8	4.2		0.0
F04	211	n-211-02	858	L-4	OM	5.0	5179.1	1349.7	1963.2	344.6	1055.1	1.9	954.8	51.0	4.9	1.8	0.7	0.2	0.9	16.5	46.2	22.8	0.4	11.0	0.0	0.0
F07	64	n-64-01	415	GG-7	UML	0.3	847.9	705.3	1916.8	455.8	1520.9	0.3	8522.7	185.3	6.0	0.2	0.5		0.1	28.8	28.2	30.3	0.3	9.3		0.1
F09	229	n-229-01	1404	GG-7	OM	1.9	1315.5	795.6	1663.9	204.9	1085.9	1.2	315.9	37.0	2.9		0.8	0.0	0.2	19.1	49.7	14.7	0.3	14.4	0.0	0.0
F09	229	n-229-06	1149	GG-7	UML	12.7	3159.5	1194.1	1808.0	256.3	898.6	2.7	476.8	50.5	4.7	2.7	0.7	0.0	0.6	17.4	43.9	26.4	0.4	9.2	0.0	0.0
F09	229	n-229-07	905	GG-7	UML	6.8	2783.3	1092.3	4267.3	290.9	652.0	1.0	835.0	66.8	6.7	2.8	0.8	0.0	0.3	18.0	43.9	26.4	0.7	8.4	0.0	0.0
G03	94	n-94-06	663	GG-5	UML	1.8	1115.5	2159.1	5381.8	328.0	274.1	0.5	1937.8	78.0	7.6	0.5	0.8	0.0	0.1	20.3	39.6	35.7	0.8	1.9		0.0
G03	94	n-94-07	1051	GG-7	UML	7.5	2978.2	1260.6	2324.8	230.4	676.7	0.8	582.5	48.1	5.3	2.5	0.9	0.0	0.6	14.4	49.9	23.9	0.4	9.9	0.0	0.0

Appendix. Chromite mineral chemistry

Field	Lab	Grain	T(Zn) C	nweighted, with Mn	Yao-CART	Sc	Ti	V	Mn	Co	Ni	Cu	Zn	Ga	Ge	Zr	Nb	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O
G03	94	n-94-08	549	GG-5	OM	6.8	1369.6	738.9	5111.0	278.2	964.8	0.7	3434.1	33.2	5.6	0.2	0.7		0.2	15.1	46.2	26.7	0.4	8.4		0.0
G03	94	n-94-09	933	K-1	Kim	11.2	26899.9	359.3	2735.1	254.0	1662.9	4.1	773.3	61.6	5.6	89.8	19.0	0.0	4.8	10.1	40.7	28.7	0.4	13.5		0.0
G03	94	n-94-10	965	GG-5	OM	4.7	5849.5	1432.6	3316.2	327.6	927.8	1.1	712.3	47.8	7.8	0.7	0.7	0.0	1.0	16.1	40.0	36.9	0.5	3.9	0.0	0.0
G04	163	n-163-05	608	GG-5	OM	3.1	1679.4	885.1	2216.8	363.5	415.4	0.8	2511.8	22.4	5.7	0.3	0.8	0.0	0.4	15.0	48.2	26.9	0.4	7.2	0.0	0.0
G04	163	n-163-06	386	L-6	OM	2.3	11227.5	2041.2	3554.9	1096.9	621.3	0.4	10869.7	49.2	8.5	0.9	0.7	0.0	1.4	13.1	38.7	39.9	0.7	1.6	0.0	0.0
G07	174	n-174-03	773	GG-5	Kim	2.9	1973.8	1026.2	2762.2	369.1	816.5	6.5	1260.8	42.0	7.4	1.5	1.3	0.1	0.9	8.9	48.6	31.0	0.4	8.1		0.0
G07	174	n-174-04	807	GG-7	Kim	3.4	2322.0	909.0	1982.7	400.8	631.8	0.4	1122.8	32.6	5.6	2.1	0.9	0.0	0.4	13.6	48.1	30.8	0.3	4.9	0.0	0.0
G07	174	n-174-05	843	GG-7	UML	5.3	3961.1	1343.0	2653.3	339.5	811.4	1.0	1001.1	52.2	6.5	0.4	0.7	0.0	0.7	17.7	38.1	35.2	0.5	6.1	0.0	0.0
G08	193	n-193-03	539	GG-5	Kim	1.2	1142.4	533.2	3288.7	539.0	323.8	0.3	3633.8	16.1	4.6	0.6	0.9	0.1	0.2	7.8	52.6	30.8	0.6	5.3	0.0	0.0
G08	193	n-193-04	388	GG-5	Kim	0.5	1719.0	684.8	8395.7	584.5	194.9	0.5	10769.6	18.4	7.4	0.2	0.9	0.1	0.3	10.8	48.2	35.7	1.3	0.7	0.0	0.0
H02	222	n-222-02	805	GG-5	OM	2.2	938.1	663.0	3951.5	360.2	514.6	2.8	1129.1	33.9	5.7	0.4	0.7	0.1	0.2	8.4	56.8	25.1	0.5	7.7	0.0	0.0
H02	222	n-222-03	988	L-4	UML	6.5	6055.0	1697.1	1895.1	251.1	996.8	2.2	672.5	65.7	5.9	0.5	0.5	0.0	1.0	17.3	40.5	29.6	0.3	9.2	0.0	0.0
H02	222	n-222-04	574	GG-3	UML	0.7	904.3	779.9	2694.9	615.4	1063.5		2981.7	80.9	6.2	0.2	0.4	0.0	0.1	22.7	35.6	31.8	0.4	7.7	0.0	0.0
H04	105	n-105-02	1246	GG-7	UML	2.9	2339.3	1062.1	1811.8	218.6	974.2	2.1	400.9	44.3	5.0	0.2	0.7	0.0	0.4	19.2	45.1	21.6	0.4	11.8	0.0	0.0
H04	105	n-105-03	525	GG-5	OM	2.6	1328.8	704.0	2627.6	583.7	583.7	1.7	3961.1	16.0	5.9	0.2	0.7		0.3	13.8	46.7	29.5	0.5	7.3		0.0
H04	105	n-105-04	1242	L-2	Lam	9.6	25284.8	800.2	2050.9	230.3	1367.2	19.2	403.4	51.4	7.0	6.8	1.8	0.1	4.3	9.4	40.7	30.6	0.3	12.6		0.0
H05	124	n-124-02	530	GG-5	OM	0.3	1544.2	687.5	3343.4	738.8	404.8		3835.6	12.7	5.4	0.6	0.7	0.1	0.2	14.5	48.8	27.1	0.5	7.0	0.0	0.0
H06	77	n-77-01	1181	L-4	OM	5.9	9988.1	751.0	1414.1	199.5	1140.1	6.1	448.5	58.7	5.6	1.2	0.7	0.1	1.8	17.2	39.4	27.3	0.3	11.9	0.0	0.0
H06	77	n-77-04	825	L-4	OM	7.4	11997.9	2447.2	2322.8	351.3	633.1	3.3	1058.9	68.5	6.4	2.0	0.8	0.0	2.4	10.7	43.9	31.9	0.3	8.8		0.0
H06	77	n-77-05	885	L-4	OM	6.2	6948.3	1320.5	1878.5	363.9	1059.6	1.6	883.5	58.2	4.7	3.6	0.7	0.0	1.3	16.6	46.0	24.2	0.3	9.8		0.0
H07	170	n-170-01	589	K-1	Kim	0.2	29.5	44.2	814.1	499.9	160.6	0.4	2755.3	21.0	2.3		0.4		0.0	3.9	65.0	22.5	0.4	6.4	0.0	0.0
H07	170	n-170-05	5248	GG-4	OM	0.3	542.3	162.6	200.4	28.5	93.6	0.1	64.0	5.9	0.6	0.0	0.1	0.0	1.0	18.5	38.7	28.3		10.0		
H10	7	n-7-01	1064	GG-7	Kim	3.4	2920.3	760.9	1666.5	322.0	732.7	3.1	566.3	28.0	3.8	0.7	1.1	0.1	0.5	12.3	55.0	19.2	0.4	11.6	0.0	0.0
I03	87	n-87-03	469	GG-5	Kim	0.8	549.1	467.8	3593.0	672.2	313.3	0.6	5673.6	8.5	6.3		0.8	0.0	0.1	8.9	52.1	30.3	0.6	5.7	0.0	0.0
I04	165	n-165-03	1322	GG-5	OM	1.4	1710.3	404.5	2892.3	220.0	403.8		355.3	16.5	2.6	0.7	0.4	0.0	1.1	12.3	50.7	27.2	0.5	6.6	0.0	0.0
I06	13	n-13-02	973	GG-7	OM	10.1	5037.3	1598.7	2719.1	303.6	733.2	0.9	698.3	57.5	5.6	2.4	0.8	0.0	0.9	16.3	40.5	33.2	0.5	6.5		0.0
I06	13	n-13-03	1113	GG-7	UML	5.4	2377.2	949.3	1331.4	216.1	487.1	0.6	511.0	36.2	3.8	2.1	0.9	0.0	0.4	14.1	52.0	20.4	0.3	11.7	0.0	
I06	13	n-13-05	1092	GG-7	UML	9.1	3108.1	1313.7	1967.3	263.5	626.7	1.3	533.3	45.8	4.9	2.3	0.8	0.0	0.5	18.3	43.4	26.5	0.3	10.1		0.0
I06	13	n-13-07	1512	GG-7	UML	4.9	1310.1	703.1	1308.4	183.5	972.5	1.0	275.0	31.3	2.7	0.1	0.9	0.0	0.2	16.5	53.2	13.3	0.3	15.0	0.0	0.0
I07	86	n-86-01	1014	GG-7	UML	8.5	3573.8	1404.4	2294.7	289.6	890.8		632.9	57.9	6.1	0.9	0.6		0.6	17.4	39.8	32.1	0.4	7.6	0.0	0.0
I07	86	n-86-02	740	GG-5	OM	2.3	4317.3	1458.3	2199.6	250.4	344.9		1419.5	26.6	6.7	1.4	0.7	0.0	0.8	14.5	42.5	34.5	0.3	5.0		0.0
I08	73	n-73-01	818	L-4	OM	5.8	6455.2	2020.5	2425.9	344.9	987.6	0.7	1081.9	63.9	7.2	0.3	0.6	0.0	1.2	16.1	39.3	33.6	0.3	7.9		0.0
I08	73	n-73-04	756	GG-5	OM	0.6	738.2	434.7	2556.5	536.4	465.6		1340.4	18.0	5.4	0.2	0.8	0.1	0.1	9.4	54.9	27.3	0.4	6.9	0.0	0.0
I08	73	n-73-08	985	GG-7	UML	7.9	3111.6	1719.6	2359.8	328.1	896.1	1.2	678.5	61.4	7.8	0.4	0.8	0.0	0.5	22.1	38.8	20.9	0.3	13.0	0.0	0.0
I10	155	n-155-01	784	GG-5	OM	1.3	885.7	806.6	2950.3	457.9	189.5	0.6	1213.9	4.8	4.9	0.3	0.8	0.1	0.2	9.8	59.0	21.1	0.5	8.0	0.0	
I10	155	n-155-02	644	GG-5	OM	1.6	2767.4	1261.7	3139.8	539.1	721.0		2110.0	36.0	8.2		0.5	0.0	0.5	16.2	37.2	37.1	0.5	5.3	0.0	0.0
J06	183	n-183-09	586	GG-5	OM	0.7	1299.7	784.9	2846.2	514.9	346.5	0.8	2807.5	9.8	5.7	0.2	0.7	0.0	0.2	10.0	53.6	26.4	0.1	6.9	0.0	0.0
J08	107	n-107-01	881	GG-7	OM	9.4	5330.0	1567.3	2474.6	336.0	810.2	1.0	893.0	61.8	7.3	0.6	0.7	0.0	0.9	16.3	40.9	31.4	0.4	8.0		0.0
J08	107	n-107-02	781	L-4	OM	2.1	11132.2	2106.3	2825.5	396.5	970.2	0.4	1224.9	70.8	8.5	0.3	0.5	0.0	1.9	16.7	34.2	41.6	0.5	3.1	0.0	0.0
J08	107	n-107-05	823	GG-5	OM	1.0	4611.4	1742.0	3054.0	367.5	651.4	0.5	1065.9	35.5	7.5	4.3	0.7	0.0	0.3	16.9	40.0	34.1	0.5	6.5		0.0
J08	107	n-107-06	948	GG-7	UML	6.6	5612.8	1903.8	2469.4	318.5	959.6	1.2	743.6	63.7	6.5	0.8	0.6	0.0	1.0	18.2	39.2	32.5	0.4	7.4	0.0	0.0
J08	107	n-107-07	941	GG-7	UML	3.9	3471.9	1212.7	2105.2	288.1	927.3	4.8	758.1	44.8	5.6	0.6	0.9	0.0	0.6	12.1	50.7	25.2	0.3	10.0	0.0	0.0
J08	107	n-107-08	632	GG-7	UML	1.9	3023.2	1311.8	2047.3	594.9	660.4		2238.0	47.8	7.3		0.6		0.5	19.3	41.1	30.8	0.3	6.6		0.0
J10	20	n-20-05	1045	GG-7	UML	4.9	1245.9	768.3	1338.0	228.4	918.2	3.8	589.2	33.3	3.1	0.3	0.9	0.1	0.2	15.2	51.0	19.4	0.3	11.8		0.0
K03	41	n-41-01	782	GG-7	OM	10.6	4411.4	1892.5	2318.2	333.7	815.2	0.7	1222.5	57.2	8.2	1.0	0.9	0.1	0.8	16.2	38.4	36.1	0.5	5.9		0.0
K03	41	n-41-02	873	GG-5	Kim	2.4	2486.5	781.8	2378.5	450.8	877.6	1.3	915.0	33.6	5.2	0.3	0.9	0.0	0.4	15.2	50.3	23.6	0.4	8.5	0.0	0.0

Appendix. Chromite mineral chemistry

Field	Lab	Grain	T(Zn) C	nweighted, with Mn	Yao-CART	Sc	Ti	V	Mn	Co	Ni	Cu	Zn	Ga	Ge	Zr	Nb	SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O
K03	41	n-41-03	369	GG-5	Kim	2.4	1610.1	767.9	1610.3	1264.9	404.9	1.3	12752.4	12.0	5.8	3.6	0.9	0.0	0.3	17.0	47.8	27.8	0.3	3.7	0.0	0.1
K03	41	n-41-04	1281	GG-7	UML	0.9	831.1	729.8	1249.4	178.8	825.5	0.5	378.8	41.7	2.5	0.1	0.8	0.0	0.2	19.1	49.7	14.8	0.2	14.7	0.0	0.0
K05	21	n-21-02	941	GG-5	OM	3.4	1395.4	879.6	2368.4	335.8	447.5	0.5	757.9	30.8	3.9		0.4	0.0	0.4	13.9	49.7	25.7	0.4	8.0		0.0
K05	21	n-21-03	943	GG-7	UML	7.8	2971.8	1029.0	1586.0	259.2	974.8	5.5	754.2	47.5	3.6	0.7	1.1	0.1	0.6	12.0	51.6	23.1	0.3	10.7	0.0	0.0
K05	21	n-21-05	1056	K-1	UML	6.1	10295.9	894.8	1380.9	225.6	1231.6	30.2	575.4	40.0	4.8	1.9	1.1	0.1	1.9	8.2	49.3	28.6	0.3	9.7	0.0	0.0
K05	21	n-21-06	729	L-6	Kim	0.9	7949.4	1518.2	4030.3	382.6	621.8	1.2	1480.1	55.1	6.5	2.1	1.1	0.0	0.6	14.3	39.6	40.6	0.6	2.1		0.0
K06	261	n-261-03	1000	L-4	UML	6.6	5285.4	1269.5	1911.4	293.7	1105.5	6.0	653.4	49.0	4.9	2.2	1.0	0.0	1.0	12.6	50.1	23.6	0.4	11.1		0.0
K06	261	n-261-04	1082	GG-7	UML	5.8	2498.2	1071.0	1685.2	238.7	904.6	5.3	545.0	47.4	3.6	0.5	0.9	0.0	0.5	12.3	52.5	21.8	0.3	11.3	0.0	0.0
K06	261	n-261-05	903	GG-7	UML	4.2	2477.3	1135.3	1865.0	306.0	686.4	8.2	839.3	45.3	4.5	0.4	0.9	0.1	0.4	12.0	50.7	24.8	0.3	9.6	0.0	
K07	148	n-148-01	901	L-4	UML	8.0	13357.5	2195.1	1561.1	254.9	2005.9	1.2	842.4	117.0	6.8	1.3	0.4		2.3	28.4	25.9	31.0	0.2	11.3	0.0	0.0
K08	121	n-121-06	853	L-4	OM	4.8	9636.7	844.2	1945.1	250.8	847.0	61.1	968.9	42.5	7.2	1.8	0.8	0.1	1.6	9.8	48.2	32.1	0.3	6.5	0.0	0.0
K08	121	n-121-09	1209	GG-7	OM	6.7	2209.5	871.4	1549.4	224.2	962.2	10.2	426.8	33.1	4.0	0.5	0.7	0.1	0.4	12.7	51.5	22.8	0.3	10.6		0.0
K09	111	n-111-01	1159	GG-7	OM	7.5	2486.2	1029.5	1630.7	228.6	880.2	5.5	467.7	41.7	5.4	0.7	0.7	0.0	0.5	12.7	51.4	21.8	0.3	11.6		0.0
L02	18	n-18-01	861	L-4	OM	5.0	5485.9	1052.3	1687.5	304.1	1186.9	3.4	945.6	52.4	4.3	1.5	0.8		1.0	16.7	43.8	25.2	0.3	10.8		0.0
L02	18	n-18-02	698	GG-7	OM	2.6	4571.3	905.2	2709.6	453.5	1441.9	0.4	1671.1	43.9	6.2	0.3	0.6	0.0	0.8	15.8	33.6	40.1	0.4	6.2	0.0	0.0
L02	18	n-18-03	508	GG-6	Kim	1.7	542.1	325.7	3591.7	514.2	425.8	0.2	4384.9	5.0	4.8	0.1	0.7	2.3	0.1	4.7	52.5	30.9	0.7	6.0		0.0
L03	251	n-251-02	983	GG-7	UML	1.4	1039.4	947.5	2366.7	266.1	1225.3		680.7	47.3	3.3		0.6	0.1	0.2	22.5	44.6	17.7	0.3	13.4		
L06E	40	n-40-13b	1079	GG-7	UML	5.8	2758.2	1002.0	1740.4	255.9	966.1	4.9	548.5	40.0	4.5	1.0	0.9	0.0	0.5	12.1	52.4	23.0	0.3	10.8	0.0	0.0
L06WA	218	n-218-01	782	GG-7	OM	3.2	6016.2	1915.4	3100.5	343.4	941.1		1222.0	64.2	8.1	0.9	0.6	0.0	1.0	13.6	39.0	38.4	0.5	5.0	0.0	0.0
L06WA	218	n-218-02	941	K-1	Kim	3.9	30194.8	1286.3	1696.7	245.9	1516.8	45.4	757.1	54.7	7.0	5.0	1.9	0.1	5.4	9.4	40.7	31.3	0.3	10.5	0.0	
L06WA	218	n-218-03	568	GG-5	OM	0.3	1072.8	904.3	3108.7	562.6	307.8		3082.2	11.7	5.6	0.3	0.6	0.1	0.2	10.6	52.5	27.7	0.5	6.5	0.0	0.0
L06WA	218	n-218-04	918	GG-7	UML	11.1	3574.1	1612.4	1944.9	241.7	699.1	1.3	805.1	65.7	6.3	2.5	0.6	0.1	0.6	20.7	36.0	31.3	0.3	9.7	0.0	0.0
L06WA	218	n-218-05	1064	GG-7	UML	8.5	4354.5	1462.8	1970.4	239.7	904.5	1.2	566.4	55.3	5.1	1.7	0.6		0.8	18.1	42.6	26.8	0.4	9.9		0.0
L06WA	218	n-218-06	982	GG-7	UML	4.5	2819.1	1513.6	2433.1	287.0	788.5		682.0	54.1	5.1	0.2	0.5	0.1	0.5	18.1	41.5	30.0	0.4	8.0		
L06WA	218	n-218-07	824	L-4	OM	4.4	6395.7	1487.5	2285.6	319.7	748.1	7.2	1061.0	50.8	5.7	1.4	1.2	0.5	1.2	10.3	48.9	29.0	0.4	8.5	0.0	0.1
L07	44	n-44-01	1005	L-4	UML	6.7	6400.6	1440.5	1738.8	256.7	880.1	6.0	646.5	54.3	5.8	2.3	0.9	0.0	2.1	11.3	48.9	25.1	0.3	9.2	0.0	0.0
L07	44	n-44-02	921	GG-5	OM	5.0	1412.4	1061.3	1804.2	317.9	437.0	1.9	797.8	26.5	3.9	0.7	1.1	0.1	0.3	12.1	56.3	19.5	0.3	10.0		0.0
L10	99	n-99-01	955	GG-7	UML	4.3	2524.5	1004.4	1770.3	305.3	735.5	4.2	729.9	42.4	4.1	0.5	0.9	0.1	0.4	12.5	52.6	21.2	0.3	11.0	0.0	0.0
M02	78	n-78-02	1280	GG-7	UML	5.3	3601.5	957.0	1873.0	245.3	825.8	2.7	379.2	43.5	4.5	0.9	0.7		0.6	17.6	44.5	25.0	0.4	10.0		0.0
M05	29	n-29-01	1304	GG-7	OM	5.1	2846.6	883.1	1944.7	239.0	624.0	1.5	365.0	40.9	4.0	0.9	1.0	0.0	0.5	17.5	44.3	26.3	0.4	9.5		
M05	29	n-29-02	838	GG-7	Kim	2.3	4405.7	811.3	2065.3	420.7	1151.1	3.7	1016.1	55.3	5.1	4.7	1.5	0.0	0.9	12.9	48.2	26.6	0.3	9.6		0.0
M05	29	n-29-03	1452	GG-7	OM	3.6	1094.5	762.0	1376.6	208.4	976.7	0.8	296.3	34.8	2.9	0.2	1.1	0.0	0.2	18.4	49.7	15.2	0.2	14.8		0.1
M05	29	n-29-04	1017	GG-7	UML	5.2	3293.5	1154.5	1783.0	274.8	764.6	4.8	628.8	45.5	4.6	0.9	1.1	0.0	0.6	11.8	51.6	23.4	0.3	10.4		
M05	29	n-29-06	844	GG-7	UML	5.5	4933.5	1596.9	2630.0	304.7	710.2	0.5	995.9	55.9	6.9	1.0	1.1	0.0	0.8	14.5	36.8	39.4	0.5	4.9	0.0	0.0
M05	29	n-29-07	738	GG-5	UML	1.5	1756.0	998.0	4410.2	322.0	992.1	0.3	1429.5	41.6	4.1	0.2	0.9	0.0	0.3	20.3	42.2	23.3	0.7	11.4		
M05	29	n-29-08	1500	GG-8	UML	7.8	1362.4	712.0	1367.0	191.5	1051.5	2.0	278.9	19.1	3.3	0.5	1.3	0.1	0.2	8.4	58.2	20.5	0.3	10.5		0.0
M05	29	n-29-09	556	GG-5	Kim	2.3	879.2	625.1	3169.6	644.1	309.1	0.9	3294.2	7.5	4.6	0.4	1.2	0.1	0.1	8.6	55.4	26.4	0.6	6.4	0.0	0.0
M05	29	n-29-10	520	L-6	OM	4.4	8315.6	1701.7	5734.2	400.8	427.9	0.4	4083.1	59.4	8.0	1.8	1.3	0.0	0.5	14.7	35.3	44.2	0.9	0.7		0.0
M06	49	n-49-02	1400	GG-8	UML	7.9	907.5	666.0	1585.2	210.2	1003.1	9.5	317.3	18.0	4.5	0.4	1.1	0.1	0.2	8.5	59.9	18.2	0.3	12.0	0.0	0.0
M06	49	n-49-03	395	GG-5	OM	2.6	1838.4	1314.4	3326.9	1184.4	71.5		10055.4	4.6	7.4	0.4	0.7	0.1	0.2	13.0	46.4	34.9	0.5	1.6		0.1
M07	172	n-172-01	1478	GG-5	OM	4.3	1718.9	1522.9	2879.9	117.0	348.2	0.8	286.5	24.3	3.1	0.4	0.3	0.0	0.8	17.1	41.8	31.6	0.6	6.8	0.0	0.0
M08	128	n-128-02	938	L-4	OM	7.4	6764.3	1776.5	1959.0	288.1	995.0	7.9	764.0	58.2	5.8	0.9	0.8	0.0	1.2	12.3	47.7	27.0	0.4	9.9	0.0	0.0
N03	215	n-215-01	1001	GG-7	UML	6.4	3820.0	1437.3	1703.6	234.6	920.7	0.7	653.0	53.4	4.9	0.8	0.5	0.0	0.7	18.7	41.8	26.3	0.4	9.8	0.0	
N06	202	n-202-03	945	GG-5	Kim	1.8	635.6	1022.3	5189.8	478.8	617.5		750.2	47.4	5.9	0.2	0.7		0.1	13.7	50.4	24.7	0.7	9.3		
N06	202	n-202-04	356	GG-5	OM	0.5	1302.7	611.6	10276.1	221.2	127.9	1.5	14387.4	95.7	10.2	0.4	0.7	0.0	0.2	15.4	43.9	35.3	1.3	0.6	0.0	0.0
N07	16	n-16-01	909	L-4	UML	3.6	26123.5	2643.3	1645.4	260.4	1570.5	1.6	824.0	112.3	6.0	1.0	0.5	0.0	4.8	21.5	24.8	38.3	0.3	7.6		

Appendix. Chromite mineral chemistry

Field	Lab	Grain	T(Zn) C	nweighted, with Mn	Yao-CART	Sc	Ti	V	Mn	Co	Ni	Cu	Zn	Ga	Ge	Zr	Nb	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O
N09	32	n-32-02	841	GG-7	UML	3.9	3102.3	1069.2	1932.5	295.8	800.5	5.3	1006.5	42.9	4.7	1.0	1.0	0.0	0.6	10.4	51.4	26.8	0.4	8.6	0.0	0.0
N09	32	n-32-03	929	GG-5	UML	4.9	2698.8	1018.2	2497.4	260.6	695.9	0.4	780.7	37.6	4.6	0.6	1.0	0.0	0.5	10.1	50.6	29.5	0.5	6.6		0.0
N09	32	n-32-04	875	L-4	OM	4.1	4954.9	896.6	1873.5	331.1	812.0	2.5	908.3	37.5	4.5	1.7	1.0	0.0	1.0	12.1	49.2	26.0	0.4	8.7	0.0	0.0
N09	32	n-32-07	932	L-4	Kim	8.7	6081.2	1717.5	2371.8	309.3	1213.1	1.0	775.9	58.3	6.2	2.7	1.3	0.0	1.0	14.5	36.9	37.9	0.4	6.5	0.0	0.0
O03	177	n-177-01	669	GG-5	OM	1.7	1891.8	671.8	2379.1	549.0	502.3	1.1	1891.0	29.8	4.9		0.7	0.0	0.3	14.4	50.0	25.3	0.4	8.5	0.0	0.0
O03	177	n-177-02	918	GG-5	OM	3.2	851.4	789.4	1879.8	312.4	367.4	3.2	805.6	25.9	4.3	0.4	0.8	0.1	0.2	11.8	58.5	16.7	0.4	11.1	0.0	0.0
O03	177	n-177-03	599	GG-5	OM	0.9	907.8	714.6	3122.0	563.9	245.6	0.6	2627.0	10.1	5.8	0.7	0.8	0.0	0.1	9.7	55.3	27.1	0.5	6.1	0.0	0.0
O03	177	n-177-04	442	GG-5	OM	0.7	888.2	625.2	3117.0	713.6	271.6	1.4	6918.3	5.5	5.1		0.6	0.1	0.2	11.7	53.5	25.8	0.4	6.5	0.0	0.0
O04	8	n-8-01	1121	GG-7	UML	4.3	4458.5	1071.0	1987.1	242.3	988.2	1.2	503.0	43.1	4.6	0.2	0.8	0.0	0.8	19.0	42.6	24.4	0.3	11.2		0.0
O04	8	n-8-02	964	GG-5	UML	3.2	2006.7	826.6	3304.5	586.4	694.6	0.5	713.7	37.0	5.2	0.2	0.7	0.0	0.3	18.7	40.0	29.5	0.5	9.2		0.0
O05	272	n-272-01	1025	GG-7	Kim	6.0	2898.2	1273.2	2614.0	284.0	244.0	7.8	617.4	42.4	3.9	3.9	1.4	0.0	0.4	14.3	50.9	22.8	0.4	10.3	0.0	0.0
O06	207	n-207-02	1437	GG-7	OM	3.2	1148.3	676.9	996.1	181.9	741.5	0.8	302.1	33.2	3.1		0.7	0.0	0.2	16.7	52.2	14.4	0.3	14.4	0.0	
O06	207	n-207-05	709	GG-5	OM	2.2	1310.2	676.4	4407.1	334.3	652.0		1599.4	30.8	5.4		0.7	0.0	0.3	14.9	47.0	26.8	0.6	8.3	0.0	0.0
O06	207	n-207-06	1172	GG-7	OM	7.1	2552.8	1043.3	1538.1	230.4	961.9	7.0	456.7	35.8	4.5	0.6	0.7	0.1	0.5	13.2	50.7	23.3	0.3	10.4	0.0	0.0
O06	207	n-207-08	571	GG-5	OM	1.1	1263.2	877.5	2961.3	540.0	128.7		3035.6	7.0	5.0	0.4	0.7	0.1	0.2	11.2	52.0	28.2	0.5	6.1	0.0	0.0
O07	182	n-182-11	935	GG-7	OM	4.6	2736.9	1092.7	1804.5	258.2	818.9	3.2	769.8	41.1	5.5	0.5	0.7	0.1	0.5	11.3	51.8	25.3	0.3	9.6	0.0	
O07	182	n-182-12	974	GG-7	OM	4.7	2424.3	1022.8	1798.3	270.9	771.6	6.0	696.1	46.6	4.8	0.2	0.8	0.0	0.4	11.9	51.8	23.7	0.3	10.5		0.0
O07	182	n-182-14	881	GG-7	OM	4.4	2145.5	920.8	1373.3	191.9	529.8		893.4	39.2	4.8	4.0	0.7		0.4	14.3	52.3	20.9	0.2	11.4	0.0	
O08	212	n-212-01	917	GG-7	OM	7.3	3337.6	1311.8	2708.7	290.5	1366.5		808.2	58.2	6.2	0.4	0.6	0.1	0.6	17.3	40.6	32.9	0.6	6.3	0.0	0.0
O10	162	n-162-04	578	GG-5	OM	1.9	848.5	519.7	2631.1	579.2	314.1	0.7	2925.4	13.5	5.6		0.7	0.0	0.1	11.6	52.6	25.4	0.5	7.5	0.0	0.0
P03	37	n-37-03	766	L-4	OM	4.9	6791.4	1682.9	2223.5	399.9	1377.2	1.6	1292.2	57.9	5.1	3.0	0.9	0.0	1.2	13.9	44.2	30.0	0.4	8.2		0.0
P04	28	n-28-01	640	GG-5	Kim	3.9	1113.9	966.3	2952.5	648.9	343.8	1.6	2153.8	17.9	3.2	0.5	1.2	0.1	0.2	13.4	54.8	21.9	0.5	7.5	0.0	0.0
P04	28	n-28-02	905	L-4	UML	4.5	4770.1	1296.8	1824.4	314.5	653.4	2.4	833.4	52.3	4.3	0.4	0.8	0.0	0.9	17.9	39.2	30.3	0.3	8.9		0.0
P05	206	n-206-01	984	GG-7	UML	2.8	2567.5	1150.0	3387.6	327.0	673.1	0.4	679.7	53.5	5.8	2.4	0.8	0.0	0.2	18.0	43.4	29.0	0.6	8.3	0.0	
P06	268	n-268-01	954	GG-5	OM	6.2	3032.3	1136.9	3006.6	336.1	726.0	0.6	732.2	45.3	8.1	1.7	0.9		0.5	17.1	42.0	34.5	0.5	4.0	0.0	
P06	268	n-268-02	904	GG-5	OM	4.0	3018.7	1063.0	6030.9	289.9	475.2	0.4	836.7	39.8	5.6	2.6	0.8	0.0	0.7	16.4	44.3	29.0	0.9	7.2	0.0	0.0
P07	48	n-48-02	873	GG-5	Kim	1.1	692.5	761.7	1824.4	356.4	226.4	1.9	912.6	8.8	3.0	0.1	1.1	0.1	0.1	13.9	57.3	16.0	0.3	11.6		0.0
P07	48	n-48-03	1288	L-4	Lam	4.3	14606.2	1251.6	1075.6	202.0	1900.8	13.3	374.2	59.2	4.3	3.4	1.3	0.1	2.7	14.6	43.9	22.0	0.2	14.7		0.0
P07	48	n-48-04	990	GG-5	UML	4.6	1470.1	919.6	1686.8	299.5	473.5	2.3	669.9	25.7	3.2	0.5	1.1	0.0	0.3	12.6	55.4	19.6	0.4	10.5		0.0
P07	48	n-48-05	1442	L-2	Lam	10.9	23398.4	362.9	1537.2	198.0	1370.0	15.9	300.0	35.6	5.0	11.8	2.9	0.1	4.6	6.5	41.5	31.4	0.3	13.1	0.0	0.0
P08	247	n-247-02	632	GG-5	UML	2.3	2860.8	1133.1	4984.8	368.7	392.3	0.5	2236.7	39.9	6.2	2.6	1.3	0.0	0.2	17.8	43.3	30.7	0.8	6.0	0.0	0.0
P09	154	n-154-01	799	L-4	OM	3.1	8014.8	1352.8	1422.0	261.9	726.0	4.3	1152.1	46.2	3.5	2.1	0.7	0.0	4.4	7.4	38.8	40.0	0.4	6.7	0.0	
P09	154	n-154-02	866	GG-7	UML	3.6	2324.6	922.7	1507.7	279.4	622.4	4.8	933.0	36.5	3.7	0.8	0.9	0.0	0.8	11.5	52.2	23.6	0.3	10.2	0.0	0.0
Q02	72	n-72-01	1113	K-1	UML	7.4	14690.6	238.7	1616.2	229.3	1500.0	28.1	510.9	32.7	4.0	4.4	1.0	0.0	2.9	8.0	49.2	24.0	0.3	13.3	0.0	0.0
Q03	200	n-200-01	983	GG-7	OM	12.1	4027.9	1239.6	2606.7	382.7	996.5	0.8	681.6	48.1	6.8	2.7	0.8	0.1	0.7	16.7	43.7	32.5	0.4	5.2		0.0
Q03A	129	n-129-02	799	GG-7	UML	4.0	2024.8	981.8	1637.6	275.7	846.6	2.1	1152.4	33.9	2.7	0.7	0.9	0.0	0.4	18.5	50.5	17.0	0.3	12.6		
Q04	257	n-257-01	1014	GG-3	UML	2.2	632.0	722.6	2163.9	238.9	748.6	1.2	632.3	56.6	4.1	0.2	0.9		0.1	15.0	51.3	21.7	0.4	10.8	0.0	0.0
Q05	203	n-203-03	596	GG-5	OM	0.6	797.0	698.4	3007.0	577.1	289.1	0.4	2665.2	9.3	5.3	0.3	0.8	0.1	0.1	10.0	53.4	28.3	0.6	6.3	0.0	0.0
Q09	96	n-96-03	869	L-4	UML	3.4	8854.3	1541.8	2049.9	305.0	898.0	9.8	925.0	50.2	4.8	1.5	0.9	0.0	1.7	10.2	48.6	28.3	0.3	8.7	0.0	0.0
Q10	275	n-275-01	884	GG-7	UML	3.5	2424.5	1136.6	1665.1	290.3	823.8	7.1	884.9	61.5	5.0	0.8	0.9	0.1	1.1	10.5	53.2	23.8	0.4	10.4		0.0
Q10	275	n-275-02	1196	GG-7	UML	6.6	2497.6	987.7	1347.6	225.4	752.2	9.7	436.6	38.9	4.1	0.5	0.9	0.0	0.5	12.0	54.1	19.3	0.3	12.9	0.0	0.0
R03	15	n-15-01	1044	K-1	UML	5.2	1085.6	783.9	1615.4	308.2	529.0	3.7	590.6	22.5	3.0	0.3	1.0	0.0	0.2	9.9	60.9	16.0	0.3	11.8		0.0
R03	15	n-15-02	985	K-1	OM	4.3	839.6	780.6	1794.1	315.9	425.1	7.8	678.2	23.0	3.2	0.2	1.0	0.1	0.2	9.6	61.4	16.3	0.4	11.2	0.0	0.0
R04	199	n-199-03	775	GG-5	OM	4.6	1540.8	1012.1	3938.3	499.6	516.1	23.7	1250.7	32.3	5.3	0.4	0.9	0.0	0.3	13.6	51.4	25.1	0.7	7.6		
R06	164	n-164-01	1063	GG-7	UML	11.6	4850.3	1505.2	2328.0	272.7	929.2	3.1	567.5	56.2	5.4	2.9	1.0		0.9	16.2	45.2	26.1	0.5	10.1	0.0	0.0
R07	134	n-134-01	994	GG-7	UML	10.7	3390.8	1231.2	1844.8	285.5	675.6	0.9	664.0	54.3	4.8	1.8	0.8	0.0	0.6	18.0	41.0	29.9	0.4	9.0	0.0	0.0

Appendix. Chromite mineral chemistry

Field	Lab	Grain	T(Zn) C	nweighted, with Mn	Yao-CART	Sc	Ti	V	Mn	Co	Ni	Cu	Zn	Ga	Ge	Zr	Nb	SiO2	TiO2	Al2O3	Cr2O3	FeO	MnO	MgO	CaO	Na2O
R07	134	n-134-03	879	GG-7	UML	2.3	1693.4	933.4	1374.6	328.0	667.5	1.9	898.4	37.5	2.7	0.3	0.9	0.0	0.3	19.4	50.8	15.6	0.3	13.0	0.0	
R07	134	n-134-04	1135	GG-7	UML	5.4	1200.5	725.5	1598.9	186.2	954.8	0.8	489.0	31.7	2.3	0.1	0.9	0.0	0.2	16.2	53.3	14.8	0.3	14.1	0.0	
R11	213	n-213-01	287	GG-5	UML	4.5	1503.4	564.0	12882.6	150.8	403.7	1.7	30666.7	21.5	6.3	0.4	0.9	0.1	0.3	10.6	49.9	30.5	2.0	0.4	0.0	0.1
R11	213	n-213-02	1038	GG-7	UML	6.2	3573.0	1540.3	2747.5	282.6	843.9	0.6	598.7	53.5	6.8	0.9	0.8	0.0	0.6	17.4	40.1	34.0	0.5	5.7	0.0	0.0
R11	213	n-213-03	1018	GG-7	UML	5.1	2302.4	1006.2	1663.4	242.0	849.0	5.5	626.2	36.7	5.1	0.3	0.9	0.1	0.5	12.2	51.4	22.9	0.3	10.8		0.0
R11	213	n-213-04	868	L-4	OM	6.7	4889.3	1247.5	2089.8	355.8	947.9	1.2	927.8	51.3	5.7	1.1	0.8	0.0	0.9	16.9	44.0	26.5	0.4	9.7		0.0
R11	213	n-213-05	686	GG-7	UML	2.6	3429.3	850.5	2833.4	495.4	1472.2	0.5	1756.0	46.7	7.4	0.1	0.6	0.0	0.6	22.6	33.4	32.9	0.4	8.0		0.0
R12	194	n-194-08	1202	K-2	UML	5.5	1214.2	635.8	1667.0	256.4	836.0	8.8	432.6	22.8	4.6	0.2	1.0	0.1	0.2	10.2	54.0	22.0	0.4	12.4		0.0
S03	112	n-112-01	613	GG-5	Kim	1.4	1651.4	919.9	3593.8	621.5	308.1	0.5	2449.4	21.9	5.1	0.7	1.2	0.0	0.3	12.2	51.4	28.6	0.6	5.6	0.0	0.0
S03	112	n-112-02	1443	GG-7	UML	3.8	1307.3	689.4	1136.2	184.8	759.3	0.7	299.6	29.2	2.7	0.2	1.0	0.0	0.2	16.3	53.0	14.0	0.2	14.6	0.0	0.0
S04	79	n-79-04	967	GG-7	Kim	3.8	2717.1	771.0	1410.2	317.3	921.7	2.0	708.2	38.9	3.5	0.5	0.9	0.0	0.5	16.3	47.5	21.5	0.3	12.0	0.0	
S04	79	n-79-05	991	GG-7	UML	4.4	1312.3	816.7	1319.9	269.0	833.5	13.1	667.8	34.7	2.3	0.4	0.9	0.0	0.2	16.1	55.5	13.1	0.3	13.8		
S04	79	n-79-06	599	GG-5	Kim	1.1	1218.1	928.1	2670.9	500.8	453.9	0.9	2617.7	10.1	3.5	0.6	0.9	0.0	0.2	8.9	53.4	27.7	0.5	7.1	0.0	0.0
S06	53	n-53-01	1074	GG-5	OM	4.0	2076.4	954.0	3690.3	312.3	390.7	1.7	553.4	36.1	5.2	1.5	1.2	0.1	0.2	17.0	43.1	30.4	0.7	6.7	0.0	
S06	53	n-53-02	544	GG-7	UML	2.3	2392.5	727.3	2407.3	596.6	754.6	0.5	3529.5	56.5	5.0	0.2	0.7	0.0	0.5	20.1	38.0	31.1	0.4	7.4	0.0	0.0
S08	81	n-81-02	683	GG-5	UML	2.0	2207.0	890.3	6331.5	333.0	523.3	0.4	1777.4	43.6	4.4	2.3	0.8	0.0	0.2	18.0	42.0	29.9	1.0	6.9		0.0
S09	249	n-249-01	757	GG-5	UML	0.3	4004.6	1768.7	4929.7	320.7	967.8	0.9	1331.5	60.5	8.0	0.2	0.7		0.7	17.6	37.7	36.7	0.8	4.3		0.0
S09	249	n-249-02	432	GG-5	OM	3.1	2229.4	1068.0	7203.2	370.5	263.6		7458.9	28.1	7.3	0.8	0.8		0.3	16.0	42.4	35.9	1.1	2.1	0.0	0.0
S10	55	n-55-01	1045	L-4	UML	5.0	4665.4	1120.6	1579.6	254.0	783.8	4.2	589.8	47.5	4.1	2.1	0.9	0.0	1.6	11.1	49.5	25.4	0.3	10.2		
S10	55	n-55-02	679	GG-5	Kim	1.3	1373.2	917.9	2577.7	642.7	271.9	0.5	1807.5	7.1	4.2	0.4	0.9	0.1	0.3	12.9	51.3	26.4	0.5	6.4	0.0	0.0
S11	84	n-84-01	905	L-4	OM	7.2	6932.1	1418.4	2017.8	323.7	1042.8	6.4	834.2	51.2	5.6	4.4	1.2	0.0	1.3	12.0	47.0	28.3	0.3	9.6	0.0	0.0
S13	146	n-146-01	834	L-4	UML	3.8	4505.9	988.3	1870.7	300.1	781.3	6.8	1029.5	41.4	3.5	0.7	0.9	0.1	1.0	11.2	52.3	24.1	0.4	9.7		0.0
S16	256	n-256-06	1001	GG-7	UML	4.2	2716.8	1044.7	1776.0	297.3	777.0	4.9	651.9	41.4	4.8	0.8	0.9	0.1	0.6	12.2	52.2	22.2	0.3	10.9	0.0	0.0
T02	144	n-144-01	1183	GG-7	UML	3.7	1292.8	778.2	1213.6	198.8	945.1	2.1	447.4	33.4	2.5		1.0	0.0	0.2	17.2	52.9	14.2	0.2	14.8	0.0	0.0
T03	254	n-254-01	642	GG-5	Kim	4.7	570.0	1219.9	2659.9	519.5	326.2		2135.0	33.3	6.4	0.2	0.8	0.0	0.1	8.8	49.8	33.5	0.5	4.8		0.0
T03	254	n-254-02	868	GG-5	OM	1.3	2052.4	1438.1	4851.4	386.4	493.6		927.2	43.2	7.5	0.3	0.7	0.1	0.4	15.3	40.1	37.0	0.8	4.4	0.0	0.0
T05	88	n-88-01	763	GG-5	Kim	3.3	990.1	809.1	2921.7	491.6	177.8	0.7	1304.5	6.7	4.3	0.3	1.2	0.1	0.2	9.5	59.0	23.4	0.6	6.7	0.0	
T05	88	n-88-02	557	GG-5	Kim	3.1	570.3	381.9	2980.9	556.8	510.1	0.3	3271.2	11.9	5.2	0.1	1.0	0.1	0.1	8.4	52.1	31.2	0.5	5.7	0.0	0.0
T05	88	n-88-03	1154	L-2	Lam	3.6	28273.6	1825.4	1453.6	241.7	1701.3	45.0	472.0	62.1	5.0	2.1	2.4	0.1	4.3	10.8	47.2	23.0	0.2	13.1		0.0
T05	88	n-88-04	817	GG-5	OM	4.2	990.9	794.3	2082.2	385.6	490.0	1.9	1086.9	23.1	3.2	0.4	1.2	0.0	0.2	12.9	56.3	20.0	0.4	9.0	0.0	0.0
T06	140	n-140-10	1018	GG-5	UML	6.7	1138.0	932.3	1662.5	301.5	459.5	1.7	626.5	24.9	3.3	0.6	1.0	0.1	0.2	11.2	56.2	21.0	0.4	9.9		
T06	140	n-140-11	953	GG-5	Kim	1.3	858.9	788.3	1713.2	332.1	240.7	21.1	733.6	17.3	2.9	0.2	1.1	0.1	0.1	9.2	59.7	18.0		10.0		
T06	140	n-140-13	724	GG-5	OM	2.2	4139.0	1252.4	3172.5	541.0	957.5	2.2	1509.7	47.2	6.6	1.1	1.4	0.0	0.6	15.9	45.4	29.3	0.4	7.5	0.0	0.0
T06	140	n-140-14	923	GG-5	OM	8.6	1047.9	1013.4	2163.3	354.0	434.3	2.7	794.8	21.7	3.6	0.4	1.1	0.0	0.2	8.8	59.5	22.3	0.4	7.5	0.0	0.0
T06	140	n-140-15	958	GG-7	UML	7.3	1011.5	678.8	1707.5	308.9	484.3	4.7	725.8	28.2	2.8	0.3	1.1	0.0	0.2	11.8	59.4	16.6	0.4	11.3		
T06	140	n-140-16	709	GG-5	OM	2.3	2094.7	952.4	4105.5	352.7	415.4	0.5	1603.8	34.2	5.0	1.1	0.8	0.0	0.2	16.8	42.8	31.3	0.8	6.5	0.0	0.0
T06	140	n-140-18	690	GG-5	UML	2.3	464.1	948.2	1670.6	444.8	542.6	1.3	1728.9	23.6	3.6	0.2	0.7	0.0	0.1	26.7	37.5	22.7	0.4	11.4	0.0	0.0
T06	140	n-140-19	659	GG-7	UML	3.2	4085.8	1562.7	2051.6	412.4	766.4	2.3	1972.7	64.6	4.7	0.3	0.7	0.0	0.8	18.2	39.0	31.6	0.4	8.3	0.0	0.0
T07	117	n-117-07	1105	GG-7	UML	4.1	4761.7	1120.9	2337.3	302.9	1628.1	1.1	519.6	47.4	4.9	1.0	0.9	0.1	0.9	15.6	44.8	28.3	0.4	8.5	0.0	0.0
T07	117	n-117-09	507	GG-5	Kim	1.6	787.3	427.4	2969.1	529.2	232.5	0.3	4421.6	9.7	4.5	0.4	0.9	0.1	0.1	5.8	55.9	30.8	0.6	4.9		0.0
T07	117	n-117-10	1049	GG-7	UML	4.6	1867.9	771.7	2006.2	191.5	1122.7	3.4	584.5	46.8	3.7	0.3	0.7	0.1	0.4	26.9	35.3	26.0	0.4	10.2	0.0	
T07	117	n-117-11	1002	GG-5	UML	0.3	1665.0	1378.0	3257.7	314.3	829.0	0.4	651.5	46.9	6.2	0.2	0.7	0.0	0.1	24.3	33.4	32.9	0.5	7.2		0.0
T11-2	260	n-260-01	558	GG-5	Kim	1.3	2074.7	675.5	4474.4	764.4	385.6	0.4	3254.0	8.5	7.9	1.8	1.3	0.0	0.3	11.4	52.2	28.5	0.6	5.6	0.0	0.0
T12	216	n-216-01	754	GG-5	Kim	0.6	1349.8	674.2	2939.7	510.3	195.0		1346.6	6.4	5.3	0.6	0.9	0.0	0.2	11.2	54.4	25.3	0.5	7.8	0.0	0.0
U02	235	n-235-02	759	GG-5	OM	5.3	2717.3	886.8	2816.9	328.3	898.1	0.5	1322.2	35.6	8.4	0.2	0.7	0.0	0.5	11.6	41.9	37.4	0.5	5.7	0.0	0.0
U04	83	n-83-01	1354	L-2	Lam	10.8	23907.4	410.9	1621.1	199.4	1320.1	17.1	338.8	39.6	4.9	8.7	2.3	0.1	4.7	7.8	38.9	32.9	0.3	12.7		

Appendix. Chromite mineral chemistry

Field	Lab	Grain	T(Zn) C	nweighted, with Mn	Yao-CART	Sc	Ti	V	Mn	Co	Ni	Cu	Zn	Ga	Ge	Zr	Nb	SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O
U04	83	n-83-02	926	GG-5	Kim	2.8	977.8	627.1	1688.1	380.0	301.4	2.2	788.6	21.6	3.1	0.5	1.0	0.0	0.2	11.3	58.7	17.1	0.3	10.7		0.0
U04	83	n-83-04	996	GG-7	OM	7.5	5816.1	1393.6	2701.7	295.4	1025.6	0.6	660.0	53.7	5.1	1.1	0.8	0.1	1.1	15.9	39.4	34.6	0.6	5.8	0.0	0.0
U05	54	n-54-01	1099	GG-7	UML	10.5	3277.3	1196.8	1980.6	273.5	796.2	0.6	526.1	50.0	4.7	2.2	0.8	0.0	0.6	17.4	40.5	33.2	0.6	5.4	0.0	0.0
U05	54	n-54-02	934	L-6	OM	6.6	8075.3	1652.9	3964.2	335.5	824.4	0.3	770.6	56.6	6.2	0.9	0.7		1.5	15.7	37.3	37.0	0.6	4.9		0.0
U05	54	n-54-04	1203	GG-7	UML	6.3	1862.2	810.2	1246.6	226.1	947.3	5.7	431.9	45.2	3.2	0.3	0.8	0.1	0.3	18.7	45.9	20.6	0.3	12.5	0.0	
V03	231	n-231-01	1370	K-2	UML	7.4	911.6	725.3	1362.9	197.1	902.5	7.2	331.0	18.6	4.4	0.4	1.1	0.1	0.2	8.5	59.8	17.7	0.3	12.6	0.0	
V03	231	n-231-02	782	GG-5	Kim	0.7	909.2	496.5	2939.1	559.5	528.5	0.8	1220.5	21.8	6.5	0.2	1.0	0.0	0.2	9.9	51.5	30.6	0.5	5.7	0.0	0.0
V03	231	n-231-03	866	GG-7	UML	1.2	3054.1	1230.9	2413.9	389.3	706.7	0.5	932.7	55.6	5.8	0.3	0.8	0.0	0.5	19.1	40.9	31.3	0.5	6.8	0.0	0.0
V03	231	n-231-04	1154	GG-5	OM	12.9	2779.3	1209.6	2957.1	260.3	841.2	2.4	472.3	44.4	6.3	1.8	0.8	0.0	0.5	17.0	44.5	29.9	0.4	6.8	0.0	0.0
V03	231	n-231-05	756	L-4	OM	6.5	7140.9	1892.5	2353.5	362.7	863.9	0.6	1340.4	62.9	7.2	0.4	0.6		1.3	17.1	35.9	36.3	0.4	6.8	0.0	0.0
V03	231	n-231-06	477	GG-5	Kim	3.2	1392.1	865.8	3537.4	775.4	539.9		5365.0	37.7	6.8	0.2	1.1	0.0	0.2	14.8	45.6	32.0	0.5	5.3	0.0	0.0
V04	50	n-50-01	1314	GG-7	UML	5.1	1893.9	834.8	1877.2	217.6	789.7	1.0	359.6	34.7	3.5	1.6	1.0	0.1	0.4	14.1	51.8	20.1	0.4	11.3		0.0
V06	227	n-227-03	1027	GG-5	UML	5.9	958.8	824.6	1752.8	302.9	452.8	9.1	614.5	21.6	3.8		1.1	0.0	0.8	8.3	48.0	35.7	2.2	0.4	0.0	0.1
V07	36	n-36-01	832	GG-7	OM	1.4	4001.5	1914.5	1958.4	245.8	501.4	0.9	1034.6	57.0	5.5	0.5	0.8		0.7	14.3	41.1	34.7	0.4	6.4	0.0	0.0
V07	36	n-36-02	573	GG-5	Kim	1.4	1701.2	802.4	2522.2	525.5	314.7	0.5	3005.6	7.2	3.9	0.3	0.9	0.0	0.3	13.5	49.9	27.0	0.4	6.5		0.0
W05	100	n-100-03	1472	GG-4	UML	6.2	3305.8	708.0	1097.8	178.8	1029.1	4.8	288.6	32.9	2.5	0.7	1.1		0.2	15.7	53.7	15.0	0.3	14.1		
Z06	176	n-176-01	633	GG-5	UML	0.1	247.6	1541.1	2887.0	620.0	90.0		2228.1	11.4	1.1	0.1	0.1		0.3	20.2	41.2	30.7	0.5	6.0	0.0	0.0
Z06	176	n-176-02	568	GG-3	UML	0.4	1054.0	572.2	2575.8	534.8	563.4		3085.2	89.3	7.1	0.3	0.6		0.2	21.6	37.9	32.4	0.4	6.5	0.0	0.0
Z07	63	n-63-01	932	GG-7	OM	3.3	2770.6	1032.4	1951.4	277.2	920.0	3.2	775.8	38.4	5.8	0.2	0.8	0.0	0.5	13.0	46.5	28.5	0.4	9.2	0.0	0.0
Z07	63	n-63-02	675	GG-5	UML	1.0	947.3	837.4	2879.2	355.7	702.3	0.9	1839.0	40.5	5.1	0.2	0.7		0.2	21.3	40.8	25.8	0.5	9.7		0.0
Z07	63	n-63-03	752	GG-5	OM	3.0	2191.0	1161.7	3276.8	399.0	702.0		1359.8	45.6	7.1	0.1	0.7	0.0	0.4	13.7	42.9	34.9	0.6	6.0		0.0
Z07	63	n-63-04	815	L-4	OM	6.3	5704.4	1642.8	2086.5	302.1	1407.1	1.9	1093.0	68.3	7.6	0.5	0.7	0.0	1.0	16.5	35.0	36.6	0.4	8.2	0.0	
Z07	63	n-63-05	723	L-4	UML	0.9	6531.5	2433.2	2538.8	398.4	1749.6	1.3	1515.4	109.4	8.6	4.5	0.6	0.0	0.6	19.2	31.8	38.2	0.1	6.7		0.0
Z10	26	n-26-01	1342	L-4	OM	3.5	7262.0	869.4	933.5	175.3	1459.1	12.7	344.9	52.9	3.2	1.0	1.0	0.2	1.4	19.9	43.4	18.0	0.2	15.3		0.0
Z10	26	n-26-02	930	K-1	Kim	6.0	21738.8	1620.6	2148.4	214.2	1475.9	12.1	780.2	95.2	6.1	21.7	9.8	0.0	4.5	2.3	44.9	37.8	0.4	6.9	0.0	0.0
Z10	26	n-26-03	1170	GG-7	UML	7.3	2239.1	1081.6	1363.7	212.9	675.7	2.9	457.9	34.4	3.4	0.6	1.1	0.0	0.4	14.9	49.1	22.8	0.3	10.6	0.0	0.0
Z14	52	n-52-01	1177	GG-7	UML	5.8	2489.9	1095.4	1903.5	223.4	893.2	1.1	452.4	43.0	4.8	0.8	1.0	0.0	0.5	14.4	50.3	22.9	0.4	10.4		0.0
Z14	52	n-52-02	603	GG-7	Kim	0.4	2034.3	1910.4	3135.4	241.4	572.5	10.5	2574.0	92.6	8.2	0.3	1.9	0.0	0.2	15.6	37.0	42.8	0.5	0.9	0.0	0.0
Z14	52	n-52-03	821	GG-5	OM	4.0	2711.2	974.1	2088.9	289.7	616.3	0.5	1072.6	31.6	6.0	0.7	0.8	0.1	0.5	14.7	47.7	27.4	0.4	7.6		0.0
Z14	52	n-52-04	1186	GG-7	OM	6.7	2767.0	1089.5	2023.3	216.4	1060.6	0.6	444.7	42.3	4.5	1.7	0.8	0.0	0.5	14.1	50.9	22.6	0.4	10.4	0.0	
Z14	52	n-52-05	1123	GG-7	UML	5.7	2146.3	927.2	1253.6	219.1	710.7	0.5	500.5	36.0	3.7	0.7	0.9	0.0	0.4	13.8	51.2	21.2	0.2	11.3	0.0	0.0
Z15	30	n-30-02	614	GG-7	OM	4.4	3780.1	1215.9	2702.7	372.7	564.2	0.3	2435.7	41.9	5.9	1.4	0.9	0.0	0.7	15.3	43.2	34.2	0.5	4.3		0.0
Z15	30	n-30-03	1101	GG-7	UML	3.6	1606.4	869.5	1845.2	238.7	1111.4	1.3	523.4	37.1	4.0	0.7	1.1	0.0	0.3	17.6	48.2	20.7	0.4	11.4	0.0	0.0