

## **Appendix 2-19 Field Measurements of Physical Properties**

Appendix2-19 Field Measurements of Physical Properties

No.	POINT No.	NORTH CORDINATION			EAST CORDINATION			MAGNETIC SUCEPTIBILITY ( $\times 10^{-3}$ S.I.U.)	FIELD ROCK NAME
		°	'	"	°	'	"		
1	G353	48	47	17	83	06	48	0.51	GRANITOID
2	G354	48	47	17	83	05	28	0.47	HORNFELS
3	G355	48	47	17	83	05	30	-	HORNFELS
4	G356	48	47	16	83	05	24	-	GRANITOID
5	G357	48	47	15	83	05	17	0.36	HORNFELS
6	G358	48	47	13	83	05	08	-	HORNFELS
7	G359	48	47	11	83	05	05	0.32	HORNFELS
8	G360	48	47	11	83	05	02	0.36	HORNFELS
9	G361	48	47	10	83	05	01	0.31	HORNFELS
10	G362	48	47	10	83	04	59	-	GRANITOID
11	G363A	48	47	08	83	04	55	0.15	HORNFELS
12	G363B	48	47	09	83	04	54	0.18	HORNFELS
13	G364	48	47	07	83	04	54	0.19	HORNFELS
14	G365	48	47	07	83	04	54	0.16	HORNFELS
15	G366	48	47	03	83	04	56	-	HORNFELS
16	G367	48	47	01	83	04	58	-	HORNFELS
17	G368	48	46	53	83	05	07	-	LAVA
18	G369	48	46	44	83	05	16	0.16	GRANITOID
19	G370	48	46	42	83	05	17	0.16	GRANITOID
20	G371	48	46	41	83	05	14	0.14	GRANITOID
21	G372	48	46	38	83	04	37	0.34	HORNFELS
22	G373	48	46	33	83	04	44	0.39	HORNFELS
23	G374	48	46	31	83	04	57	0.41	GRANITOID
24	G375	48	46	32	83	04	57	-	HORNFELS
25	G376	48	46	32	83	04	56	0.26	GRANITOID
26	G377	48	46	34	83	04	54	0.23	GRANITOID
27	G378	48	46	34	83	04	52	0.30	GRANITOID
28	G379	48	46	43	83	04	47	0.31	HORNFELS
29	G380	48	46	45	83	04	47	0.36	HORNFELS
30	G381	48	46	48	83	04	48	0.18	HORNFELS
31	G382	48	46	49	83	04	48	0.28	HORNFELS
32	G383	48	46	58	83	04	51	0.28	HORNFELS
33	G384	48	46	60	83	04	53	0.26	HORNFELS
34	G385	48	47	03	83	04	55	0.26	HORNFELS
35	G386	48	47	08	83	04	54	0.22	HORNFELS
36	G387	48	47	10	83	04	51	0.26	HORNFELS
37	G388	48	47	11	83	04	47	0.18	APLITE
38	G389	48	47	10	83	04	44	0.32	GRANITOID
39	G390	48	47	10	83	04	43	0.30	HORNFELS
40	G391	48	47	10	83	04	39	0.21	HORNFELS
41	G392	48	47	10	83	04	36	0.53	GRANITOID
42	G393	48	47	00	83	07	55	0.25	GRANITOID
43	G394	48	46	59	83	08	01	0.44	HORNFELS
44	G395	48	46	58	83	08	03	0.41	HORNFELS
45	G396	48	46	54	83	08	21	0.16	GRANITOID
46	G397	48	46	54	83	08	22	0.34	HORNFELS
47	G398	48	46	53	83	08	24	0.16	GRANITOID
48	G399	48	46	50	83	08	24	0.14	GRANITOID
49	G400	48	46	44	83	08	27	0.35	HORNFELS
50	G401	48	46	43	83	08	33	0.29	HORNFELS
51	G402	48	46	42	83	08	37	0.47	HORNFELS
52	G403	48	46	45	83	08	40	0.37	HORNFELS
53	G404	48	46	46	83	08	48	0.35	HORNFELS
54	G405	48	46	47	83	08	47	0.36	HORNFELS
55	G406	48	46	40	83	08	46	0.37	HORNFELS
56	G407	48	46	38	83	08	49	0.31	HORNFELS
57	G408	48	46	36	83	08	48	0.40	HORNFELS
58	G409	48	46	35	83	08	46	0.42	HORNFELS
59	G410	48	46	34	83	08	44	0.30	HORNFELS
60	G411	48	46	35	83	08	44	0.11	GRANITOID

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No.	POINT No.	NORTH CORDINATION			EAST CORDINATION			MAGNETIC SUCCEPTIBILITY (X10 <sup>-3</sup> S.I.U.)	FIELD ROCK NAME
		"	'	''	"	'	''		
61	G412	48	46	36	83	08	44	0.13	GRANITOID
62	G413	48	46	36	83	08	46	0.18	GRANITOID
63	G414	48	46	36	83	08	43	0.09	GRANITOID
64	G415	48	46	36	83	08	41	0.34	HORNFELS
65	G416	48	46	33	83	08	39	0.06	GRANITOID
66	G417	48	46	27	83	08	38	0.52	HORNFELS
67	G418	48	46	42	83	08	42	0.34	HORNFELS
68	G419	48	46	26	83	08	49	0.46	HORNFELS
69	G420	48	46	25	83	08	51	0.38	HORNFELS
70	G421	48	46	21	83	08	56	0.33	HORNFELS
71	G422	48	47	14	83	04	42	0.15	GRANITOID
72	G423	48	48	24	82	54	47	0.38	GRANITOID
73	G424	48	48	14	82	54	06	0.18	GRANITOID
74	G425	48	45	06	83	01	47	0.33	HORNFELS
75	G426	48	45	07	83	01	37	0.11	GRANITOID
76	G427	48	45	08	83	01	32	0.26	HORNFELS
77	G428	48	45	09	83	01	26	0.39	HORNFELS
78	G429	48	45	08	83	01	25	0.69	GRANITOID
79	G430	48	45	06	83	01	25	0.10	GRANITOID
80	G431	48	45	04	83	01	22	0.11	GRANITOID
81	G432	48	45	03	83	01	28	0.27	GRANITOID
82	G433	48	45	05	83	01	32	0.95	GRANITOID
83	G434	48	45	03	83	01	36	0.17	GRANITOID
84	G435	48	45	03	83	01	39	0.16	GRANITOID
85	G436	48	45	01	83	01	41	0.16	GRANITOID
86	G437	48	44	55	83	01	39	0.11	GRANITOID
87	G438	48	44	54	83	01	34	0.11	GRANITOID
88	G439	48	44	54	83	01	27	0.25	HORNFELS
89	G440	48	44	52	83	01	23	0.30	HORNFELS
90	G441	48	44	42	83	01	44	0.34	HORNFELS
91	G442	48	44	51	83	01	48	0.12	GRANITOID
92	G443	48	45	22	83	02	51	0.29	HORNFELS
93	G444	48	45	12	83	02	46	0.31	HORNFELS
94	G445	48	46	41	83	03	51	33.80	HORNFELS
95	G446	48	46	40	83	03	49	48.59	HORNFELS
96	G447	48	46	36	83	03	43	44.43	HORNFELS
97	G448	48	46	37	83	03	34	5.84	HORNFELS
98	G449	48	46	12	83	02	18	0.09	GRANITOID
99	I153	48	47	16	83	05	44	0.33	GRANITOID
100	I154	48	47	16	83	05	44	0.32	HORNFELS
101	I155	48	47	14	83	06	02	0.34	HORNFELS
102	I156	48	47	14	83	06	07	0.13	GRANITOID
103	I157	48	47	14	83	06	12	0.25	GRANITOID
104	I158	48	47	12	83	06	12	0.28	HORNFELS
105	I159	48	47	08	83	06	08	0.32	HORNFELS
106	I160	48	47	07	83	06	07	0.14	GRANITOID
107	I161	48	47	06	83	06	06	0.15	HORNFELS
108	I162	48	47	01	83	06	04	0.17	GRANITOID
109	I163	48	46	59	83	06	02	0.19	HORNFELS
110	I164	48	46	59	83	06	04	0.16	HORNFELS
111	I165	48	46	55	83	06	12	0.18	HORNFELS
112	I166	48	46	54	83	06	39	0.30	HORNFELS
113	I167	48	46	55	83	06	45	0.38	HORNFELS
114	I168	48	46	58	83	06	50	0.17	HORNFELS
115	I169	48	47	03	83	06	50	0.14	GRANITOID
116	I170	48	47	07	83	06	48	0.24	HORNFELS
117	I171	48	47	10	83	06	46	0.17	GRANITOID
118	I172	48	47	12	83	06	45	0.26	HORNFELS
119	I173	48	47	15	83	06	46	0.23	GRANITOID
120	I174	48	47	17	83	06	48	0.23	HORNFELS

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No.	POINT No.	NORTH CORDINATION			EAST CORDINATION			MAGNETIC SUCCEPTIBILITY ( $\times 10^{-3}$ S.I.U.)	FIELD ROCK NAME
		'	"	'''	'	"	'''		
121	I175	48	47	18	83	06	40	0.34	HORNFELS
122	I176	48	47	20	83	06	33	0.47	GRANITOID
123	I177	48	47	20	83	06	31	0.50	HORNFELS
124	I178	48	47	19	83	06	21	0.39	GRANITOID
125	I179	48	47	18	83	08	15	0.33	HORNFELS
126	I180	48	47	25	83	07	03	0.18	GRANITOID
127	I181	48	47	24	83	07	00	0.24	HORNFELS
128	I182	48	47	22	83	06	52	0.21	GRANITOID
129	I183	48	47	17	83	06	56	0.31	HORNFELS
130	I184	48	47	13	83	06	52	0.33	HORNFELS
131	I185	48	47	09	83	06	49	0.30	HORNFELS
132	I186	48	47	06	83	06	46	0.30	HORNFELS
133	I187	48	47	01	83	06	49	0.19	GRANITOID
134	I188	48	46	59	83	06	52	0.32	HORNFELS
135	I189	48	46	57	83	06	47	0.14	HORNFELS
136	I190	48	46	56	83	06	54	0.54	GRANITOID
137	I191	48	47	01	83	07	18	1.11	HORNFELS
138	I192	48	46	59	83	07	24	0.19	HORNFELS
139	I193	48	46	58	83	07	29	0.15	HORNFELS
140	I194	48	46	07	83	09	54	0.24	HORNFELS
141	I195	48	45	59	83	10	05	0.29	HORNFELS
142	I196	48	45	32	83	11	24	0.20	HORNFELS
143	I197	48	45	08	83	11	40	0.30	HORNFELS
144	I198	48	44	44	83	12	19	0.34	HORNFELS
145	I199	48	45	53	83	09	58	0.16	HORNFELS
146	I200	48	46	25	83	09	15	0.24	HORNFELS
147	I201	48	46	20	83	09	15	0.15	HORNFELS
148	I202	48	46	16	83	02	38	0.28	HORNFELS
149	I203	48	46	12	83	02	23	0.17	HORNFELS
150	I204	48	46	04	83	02	21	0.27	HORNFELS
151	I205	48	45	56	83	02	17	0.14	HORNFELS
152	I206	48	45	53	83	02	14	0.33	HORNFELS
153	I207	48	45	50	83	02	09	0.31	HORNFELS
154	I208	48	45	37	83	02	01	0.25	HORNFELS
155	I209	48	45	45	83	02	39	0.27	HORNFELS
156	I210	48	45	53	83	02	29	0.23	HORNFELS
157	I211	48	45	53	83	02	20	0.27	HORNFELS
158	I212	48	46	05	83	02	28	0.10	GRANITOID
159	I213	48	47	12	83	02	49	0.24	HORNFELS
160	I214	48	47	01	83	02	26	0.27	HORNFELS
161	I215	48	46	53	83	02	9	0.33	HORNFELS
162	I216	48	46	57	83	01	32	0.25	AGGLOMERATE
163	I217	48	46	11	83	01	29	0.25	LAVA
164	I218	48	46	13	83	01	26	0.23	LAVA
165	I219	48	46	13	83	01	23	0.18	LAVA
166	I220	48	46	10	83	01	19	0.38	LAVA
167	I221	48	43	30	82	59	52	0.35	AGGLOMERATE
168	I222	48	43	27	83	00	01	0.39	AGGLOMERATE
169	I223	48	43	24	83	00	12	0.55	AGGLOMERATE
170	I224	48	43	20	83	00	22	0.82	AGGLOMERATE
171	I225	48	43	17	83	00	33	0.43	AGGLOMERATE
172	I226	48	43	08	83	00	56	2.87	AGGLOMERATE
173	I227	48	43	04	83	01	07	0.27	AGGLOMERATE
174	I228	48	43	02	83	01	14	0.33	AGGLOMERATE
175	I229	48	43	00	83	01	17	0.29	AGGLOMERATE
176	I230	48	42	57	83	01	10	0.29	AGGLOMERATE
177	I231	48	43	21	83	02	57	0.34	GRANITOID
178	I232	48	42	26	83	03	10	0.19	GRANITOID

## **Appendix 2-20 The Results of Opaque EDX Analysis**

Appendix 2-20 The Results of of Opaque EDX Analysis

ANALYZED POINT	Ti %	Fe %	Mn %	O %	Mg %	Si %	V %	Mineralogical name	Fe/Ti+Fe
G365	32.93	29.42	2.34	35.32				ALTERED ILMENITE	0.47
	32.66	30.21	1.80	35.33				ALTERED ILMENITE	0.48
	32.73	30.19	1.73	35.34				ALTERED ILMENITE	0.48
	59.95			40.05				ANATASE	0.00
Average									0.36
G370	31.70	31.10	2.06	35.14				ILMENITE	0.50
	31.28	30.66	3.09	34.97				ILMENITE	0.49
	32.11	30.69	1.98	35.22				ALTERED ILMENITE	0.49
	0.17	67.00	3.05	29.79				ANATASE	1.00
	0.07	67.09	3.07	29.77				ANATASE	1.00
Average									0.70
G378	32.35	30.32	2.08	23.66				Titaniferous magnetite	0.48
	32.58	30.15	1.98	25.34				Ilmenite	0.48
	32.00	30.77	2.03	24.63				Ilmenite	0.49
Average									0.48
G387	32.83	29.46	2.41	35.29				ALTERED ILMENITE	0.47
	32.85	29.25	2.62	35.28				ALTERED ILMENITE	0.47
	33.22	29.33	2.06	35.39				ALTERED ILMENITE	0.47
Average									0.47
G395	33.06	29.96	1.57	35.41				ALTERED ILMENITE	0.48
	32.38	30.88	1.42	35.32				ALTERED ILMENITE	0.49
	32.52	30.63	1.51	35.33				ALTERED ILMENITE	0.49
Average									0.48
G416	32.61	31.90		35.49				ALTERED ILMENITE	0.49
	32.75	29.49	2.49	35.27				ALTERED ILMENITE	0.47
	32.19	30.38	2.23	35.20				ALTERED ILMENITE	0.49
Average									0.48
G423	32.67	29.92	2.12	35.30				ALTERED ILMENITE	0.48
	32.02	30.53	2.28	35.17				ALTERED ILMENITE	0.49
	0.00	69.94		30.06				ANATASE	1.00
	32.11	30.64	2.04	35.21				ALTERED ILMENITE	0.49
Average									0.61
G433	2.54	66.98		30.48				ANATASE	0.96
	2.11	67.49		30.41				ANATASE	0.97
	32.31	32.25		35.44				ALTERED ILMENITE	0.50
	5.97	62.98		31.05				TITANIFEROUS MAGNETITE	0.91
	31.62	30.54	2.77	35.06				ILMENITE	0.49
	31.98	29.79	3.14	35.08				ALTERED ILMENITE	0.48
	1.19	68.56		30.25				ANATASE	0.98
Average									0.76
G442	39.57	22.42	1.49	36.51				PSEUDORUTILE	0.36
	39.99	22.18	1.23	36.60				PSEUDORUTILE	0.36
	39.69	22.63	1.12	36.56				PSEUDORUTILE	0.36
	38.78	23.22	1.64	36.36				PSEUDORUTILE	0.37
	40.10	21.41	1.94	36.55				PSEUDORUTILE	0.35
Average									0.36
G445	0.09	69.84		30.07				MAGNETITE	1.00
	38.22	20.67	5.19	35.92				PSEUDORUTILE	0.35
		69.94		30.06				MAGNETITE	1.00
		69.94		30.06				MAGNETITE	1.00
	36.65	22.80	4.85	35.69				PSEUDORUTILE	0.38
	37.54	23.18	3.29	35.99				PSEUDORUTILE	0.38
Average									0.69
G449	30.43	30.45	4.41	34.70				ILMENITE	0.50
	30.37	30.19	4.79	34.65				ILMENITE	0.50
Average									0.50
G450	30.70	31.39	3.04	34.88				ILMENITE	0.51
	30.96	31.44	2.63	34.96				ILMENITE	0.50
	30.94	31.30	2.83	34.94				ILMENITE	0.50
	31.03	30.62	3.45	34.89				ILMENITE	0.50
Average									0.50
I162	29.86	33.19	2.12	34.83				ILMENITE	0.53
	31.15	31.92	1.86	35.07				ILMENITE	0.51
	30.71	32.82	1.42	35.04				ILMENITE	0.52
Average									0.52
I173	30.89	31.84	2.29	34.98				ILMENITE	0.51
	30.76	31.72	2.59	34.93				ILMENITE	0.51
	0.61	69.23		30.16				MAGNETITE	0.99
	30.55	32.18	2.35	34.92				ILMENITE	0.51
Average									0.63

Appendix 2-20 The Results of of Opaque EDX Analysis

ANALYZED POINT	Ti %	Fe %	Mn %	O %	Mg %	Si %	V %	Mineralogical name	Fe/Ti+Fe
I178	30.20	30.72	4.41	34.66				ILMENITE	0.50
	30.25	31.05	3.98	34.71				ILMENITE	0.51
		69.94		30.06				MAGNETITE	1.00
		68.82		30.43				MAGNETITE	1.00
	30.42	32.49	2.17	34.92				ILMENITE	0.52
Average									0.71
I190	30.36	31.83	2.99	34.83				ILMENITE	0.51
	30.32	32.11	2.73	34.85				ILMENITE	0.51
	30.87	30.53	3.77	34.84				ILMENITE	0.50
	0.11	67.32	2.77	29.81				MAGNETITE	1.00
	0.28	67.43	2.41	29.87				MAGNETITE	1.00
Average									0.70
I212	31.75	31.60	1.44	35.21				ILMENITE	0.50
	56.74	3.74	0.00	39.51				ANATASE	0.06
	35.01	27.56	1.70	35.73				ALTERED ILMENITE	0.44
	32.62	30.09	1.98	35.30				ALTERED ILMENITE	0.48
	58.05	1.74	0.00	39.89				ANATASE	0.03
	31.66	31.44	1.73	35.17				ILMENITE	0.50
Average									0.33
I232	59.92	0.03		40.04				ANATASE	0.00
	31.94	26.81	3.30	34.63				ALTERED MANGANOFEROUS ILMENITE	0.46
	38.65	23.86	1.10	36.39				PSEUDORUTILE	0.38
	32.98	28.67	3.10	35.25				ALTERED ILMENITE	0.47
	30.56	27.58	3.23	34.27				MANGANOFEROUS ILMENITE	0.47
	40.38	21.90	1.03	36.69				PSEUDORUTILE/LEUCOXENE	0.35
Average									0.35
MJBKE-6 19.7m	32.28	28.63	4.04	35.04				ALTERED ILMENITE	0.47
	30.80	31.25	3.07	34.89				ILMENITE	0.50
Average									0.49
MJBKE-16 26.4m	32.09	29.65	3.17	35.10				ALTERED ILMENITE	0.48
	29.26	34.02	1.99	34.74				ILMENITE	0.54
	30.70	31.74	2.64	34.92				ILMENITE	0.51
	37.05	24.80	2.12	36.03				PSEUDORUTILE	0.40
	34.15	28.28	2.01	35.55				PSEUDORUTILE	0.45
	32.29	29.55	3.02	35.15				ALTERED ILMENITE	0.48
Average									0.49
MJBKE-25 23.7m	30.95	30.28	3.94	34.83				ILMENITE	0.49
	31.68	30.61	2.64	35.08				ILMENITE	0.49
	32.11	29.25	3.59	35.06				ALTERED ILMENITE	0.48
Average									0.49
MJBKE-25 24.5m	29.52	30.43	5.62	34.43				ILMENITE	0.51
	31.20	29.06	4.96	34.78				ILMENITE	0.48
	34.04	27.05	3.52	35.39				ALTERED ILMENITE	0.44
	33.94	8.91	23.73	33.41				ALTERED ILMENITE	0.21
	29.76	25.57	10.68	33.98				ILMENITE	0.46
	35.49	25.40	3.48	35.63				PSEUDORUTILE	0.42
Average									0.42
MJBKE-29 14.1m	33.19	18.43	14.16	34.22				ALTERED ILMENITE	0.36
	35.17	25.80	3.45	35.58				ALTERED ILMENITE	0.42
	33.73	22.91	8.51	34.85				ALTERED ILMENITE	0.40
	35.44	26.39	2.44	35.73				ALTERED ILMENITE	0.43
	33.40	22.63	9.25	34.73				ALTERED ILMENITE	0.40
	36.37	25.65	2.07	35.92				PSEUDORUTILE	0.41
	33.29	27.36	4.14	35.20				ALTERED ILMENITE	0.45
	31.92	22.87	10.89	34.32				ALTERED ILMENITE	0.42
Average									0.41
MJBKE-33 12.7m	34.39	28.48	1.48	35.65				ALTERED ILMENITE	0.45
	33.92	27.43	3.26	35.39				ALTERED ILMENITE	0.45
Average									0.45
MJBKE-33 13.3m	37.22	24.54	1.26	36.25				PSEUDORUTILE	0.40
	29.31	30.76	5.52	34.41				ILMENITE	0.51
	32.58	12.16	21.90	33.37				ALTERED ILMENITE	0.27
	34.89	26.55	2.97	35.58				ALTERED ILMENITE	0.43
	36.82	25.21	1.97	36.00				PSEUDORUTILE	0.41
	34.57	28.17	1.60	35.66				ALTERED ILMENITE	0.45
Average									0.86
Average									0.48

Appendix 2-20 The Results of of Opaque EDX Analysis

ANALYZED POINT	Ti %	Fe %	Mn %	O %	Mg %	Si %	V %	Mineralogical name	Fe/Ti+Fe
MJBKE-36 17.8m	33.91	28.23	1.35	35.71				PSEUDORUTILE	0.45
	30.64	32.80	1.55	35.01				ILMENITE	0.52
	32.19	29.63	3.06	35.12				PSEUDORUTILE	0.48
	34.89	25.39	4.26	35.46				PSEUDORUTILE	0.42
	59.66	0.34		40.00				ANATASE/RUTILE	0.01
Average									0.38
MJBKE-38 54.7m	6.47	62.39		31.14					0.91
	32.04	26.81	6.37	34.78				ILMENITE	0.46
	28.43	34.49	2.53	34.55				ILMENITE	0.55
Average									0.64
MJBKE-39 13.5m	36.74	25.12	2.18	35.97				PSEUDORUTILE	0.41
	37.44	24.72	1.71	36.13				PSEUDORUTILE	0.40
	36.85	24.94	2.23	35.98				PSEUDORUTILE	0.40
Average									0.40
MJBK-44 Conc	33.23	29.25	2.13	35.39				ALTERED ILMENITE	0.47
	33.49	29.40	1.62	35.48				ALTERED ILMENITE	0.47
Average									0.47
MJBK-54 54.7m	34.53	28.57	1.21	35.69				ALTERED ILMENITE	0.45
	30.85	23.02	12.11	34.03				ILMENITE	0.43
	29.76	32.08	1.14	35.20				ILMENITE	0.52
	31.50	30.59	2.88	35.03				ILMENITE	0.49
Average									0.47
MJBK-54 56.5m	30.18	32.98	1.95	34.90				ILMENITE	0.52
	37.01	25.69	1.19	36.11				PSEUDORUTILE	0.41
Average									0.47
MJBK-54 57.5m	59.95			40.05				ANATASE	0.00
	29.86	33.84	1.40	34.90				ILMENITE	0.53
	36.49	25.96	1.56	35.99				PSEUDORUTILE	0.42
	30.75	32.25	2.01	34.99				ILMENITE	0.51
	29.80	33.21	2.18	34.81				ILMENITE	0.53
	32.77	29.66	2.27	35.30				ALTERED ILMENITE	0.48
Average									0.41
Karaotkel Pit2	1.21	68.54	0.00	60.16				MAGNETITE	0.98
	37.18	24.89	1.85	36.07				PSEUDORUTILE	0.40
	28.61	32.52	4.47	34.39				ILMENITE	0.53
	0.89	66.35	2.83	29.93				MAGNETITE	0.99
Average									0.73
Karaotkel Conc	35.54	26.36	2.34	35.75				PSEUDORUTILE	0.43
	36.27	24.61	3.35	35.78				PSEUDORUTILE	0.40
	34.14	27.15	3.28	35.43				ALTERED ILMENITE	0.44
	38.60	21.77	3.48	36.15				PSEUDORUTILE	0.36
	36.64	25.75	1.60	36.01				PSEUDORUTILE	0.41
	36.13	25.56	2.47	35.84				PSEUDORUTILE	0.41
	0.84	66.22	2.31	30.13				MAGNETITE	0.99
	1.89	65.17	2.84	30.10				MAGNETITE	0.97
	1.11	68.65		30.24				MAGNETITE	0.98
	34.93	25.62	3.95	35.50				ALTERED ILMENITE	0.42
Average									0.58



## **Appendix 2-21 Determination of Zircon Radioactivity**

## Appendix 2-21 Determination of Zircon Radioactivity

No.	Hole No.	Depth (m)	Alpha integral		Beta integral	
			Becquerel/kg	±	Becquerel/kg	±
1	MJBK-52	44.8 - 46.4	603	220	640	120
2	MJBK-50	38.5 - 42.0	359	217	500	100
3	MJBK-50	49.0 - 52.0	576	202	340	130
4	MJBK-50	54.6 - 57.2	581	201	350	120
5	MJBK-49	39.5 - 41.6	434	165	460	110
6	MJBK-49	48.0 - 52.4	670	223	540	140
7	MJBK-48	48.6 - 49.5	671	223	520	140
8	MJBK-54	54.3 - 57.6	496	191	470	120
9	MJBK-44	48.3 - 51.6	574	237	350	130
10	MJBK-43	41.0 - 43.7	586	203	360	150
11	MJBK-53	56.0 - 57.1	351	225	520	110
12	MJBK-38	60.0 - 62.0	797	214	630	120
13	MJBK-40	46.0 - 48.0	416	179	450	120
14	MJBKS-29	32.0 - 34.2	626	224	560	130
15	MJBKS-31	33.5 - 35.5	917	290	590	140
16	MJBKE-35	9.3 - 13.7	575	213	350	110