

# Appendix 1

## Location and Levels for Boreholes Sunk on Chek Lap Kok

BH No	GIU No	EAST	NORTH	TOP LEVEL (mPD)	DEPTH (m)	ROCK DEPTH (m)	DATE FINISHED
D1	00935	811420	817760	62.00	7.77	1.68	21/10/73
D2	00935	810730	819170	45.00	15.30	9.09	01/11/73
D3	00935	811685	819235	69.00	17.22	12.50	27/10/73
D175	02610	812082	819920	25.50	20.05	15.05	05/12/78
D176	02610	811079	819520	47.00	6.22	1.22	12/12/78
D177	02610	811508	818680	73.50	23.86	18.82	19/12/78
D178	02610	810966	818652	120.00	28.35	23.10	13/01/79
D179	02610	811450	819645	2.00	9.72	4.72	10/12/78
D180	02610	811364	818272	74.50	14.54	9.53	21/12/78
D182	02610	811235	817057	58.50	16.54	11.53	23/11/78
D183	02610	812258	820163	42.00	6.52	1.52	16/12/78
D184	02610	811292	819859	33.00	6.52	1.52	05/12/78
D185	02610	811214	818637	78.50	17.88	12.95	03/01/79
D186	02610	811137	817623	34.00	33.96	28.96	30/11/78
L1	03427A	811364	817254	72.90	49.20	2.00	07/10/81
L2	03427A	811389	817794	72.60	32.40	3.50	10/11/81
L3	03427A	811337	818026	48.00	37.00	6.00	29/10/81
L4	03427A	810884	818284	43.10	21.70	13.50	04/12/81
L5	03427A	811584	818342	74.90	45.40	38.10	25/11/81
L6	03427A	810799	818461	59.80	18.60	5.00	17/12/81
L7	03427A	811080	818865	90.70	40.20	23.80	25/11/81
L8	03427A	811330	818825	115.43	30.20	14.03	09/11/81
L9	03427A	811709	819012	46.30	34.90	7.50	02/12/81
L10	03427A	810667	819058	50.70	40.10	2.20	30/09/81
L11	03427A	810952	819176	91.00	74.00	68.90	21/10/81
L12	03427A	811670	819195	74.30	39.40	11.80	21/11/81
L13	03427A	810639	819296	48.60	15.10	1.00	27/10/81
L14	03427A	811213	819380	58.30	20.20	11.60	31/10/81
L15	03427A	811508	819529	2.40	20.20	12.30	18/11/81
L16	03427A	811869	819730	48.00	33.40	22.20	03/11/81
L17	03427A	811146	819803	32.20	16.20	3.90	13/11/81
L18	03427A	811430	819908	32.90	22.70	3.50	10/11/81
L19	03427A	812313	820306	33.00	30.00	25.60	07/10/81
L24	03427A	811227	817276	34.70	19.30	13.20	21/01/82
L25	03427A	811299	817518	8.80	15.10	6.50	14/01/82
L26	03427A	811284	817907	67.30	11.10	4.00	18/02/82
L27	03427A	811609	818327	16.90	15.70	-	18/01/82
L28	03427A	811384	818448	91.80	25.40	9.50	09/01/82
L29	03427A	811041	818501	82.50	30.10	18.40	09/01/82
L30	03427A	811335	818685	110.00	26.00	19.00	04/01/82
L31A	03427A	810789	818856	15.10	16.90	10.40	14/01/82
L32	03427A	811550	818910	82.50	35.10	25.70	04/01/82
L33	03427A	811192	819006	60.10	20.10	12.30	29/12/81
L34	03427A	811430	819048	61.60	24.90	14.80	29/12/81
L36	03427A	811207	819547	55.30	20.10	12.80	21/01/82
TRM119	03623	811487	817127	0.34	9.82	3.10	16/03/82
84	03955	811114	817462	0.08	1.98	-	16/05/62
89	03955	810992	817950	0.53	3.81	-	16/05/62
LH1	14100	811327	819934	15.86	12.95	0.00	21/11/90
LH2	14100	811406	819868	36.58	9.36	0.00	17/11/90
LH3	14100	811484	819975	25.09	23.50	0.00	08/11/90

BH No	GIU No	EAST	NORTH	TOP LEVEL (mPD)	DEPTH (m)	ROCK DEPTH (m)	DATE FINISHED
CL1	14357	812117	819796	40.25	24.82	20.00	07/02/91
CL2	14357	811189	819818	32.79	12.91	6.65	23/01/91
CL4	14357	812010	819875	28.79	25.55	20.10	30/01/91
CL5	14357	811921	819794	33.50	22.02	16.00	09/02/91
CL6	14357	811999	819748	33.78	50.35	29.90	05/02/91
CL7	14357	811789	819680	39.28	22.17	13.30	11/02/91
CL8	14357	811818	819627	33.64	22.35	17.30	26/02/91
CL9	14357	811349	819626	20.13	26.25	2.97	01/03/91
CL10	14357	811138	819606	29.81	15.63	10.26	23/01/91
CL11	14357	811349	819586	23.28	9.25	3.92	06/03/91
CL12	14357	811730	819517	30.51	21.80	13.20	01/03/91
CL13	14357	810976	819456	56.84	7.05	1.48	25/02/91
CL14	14357	811230	819476	36.46	9.41	3.11	07/02/91
CL15	14357	810586	819401	26.50	9.00	3.80	07/03/91
CL16	14357	810696	819401	37.39	8.33	3.12	06/03/91
CL17	14357	810790	819358	55.43	28.10	21.13	05/03/91
CL18	14357	810937	819368	68.88	75.20	3.63	01/03/91
CL19	14357	811129	819431	60.88	70.39	13.89	02/02/91
CL20	14357	811332	819412	26.77	14.66	8.76	14/03/91
CL21	14357	811489	819305	30.90	18.30	12.80	02/03/91
CL22	14357	811600	819311	41.65	27.48	22.20	06/03/91
CL23	14357	811720	819311	52.88	60.00	26.40	14/03/91
CL24	14357	811850	819278	36.76	12.26	2.53	14/03/91
CL25	14357	810536	819288	34.95	6.29	1.10	08/03/91
CL26	14357	810600	819218	19.92	6.18	0.30	11/03/91
CL27	14357	810722	819245	32.03	14.42	8.30	14/03/91
CL28	14357	810930	819256	68.89	12.77	6.83	02/02/91
CL29	14357	811070	819260	53.58	15.25	10.19	11/02/91
CL30	14357	811275	819260	42.07	25.95	20.05	26/02/91
CL31	14357	811463	819221	35.29	21.06	18.00	28/02/91
CL32	14357	810845	819175	68.35	73.75	7.27	01/02/91
CL33	14357	811134	819148	72.35	25.45	20.25	11/02/91
CL34	14357	811238	819114	37.27	46.55	17.50	07/02/91
CL35	14357	811529	819136	68.35	77.20	16.79	16/03/91
CL36	14357	811736	819127	35.24	13.66	8.25	12/03/91
CL37	14357	810785	819079	54.03	17.46	12.25	27/02/91
CL38	14357	810969	819069	53.91	15.20	5.60	25/01/91
CL39	14357	811139	819042	56.85	10.93	5.20	31/01/91
CL40	14357	811352	819047	75.41	38.35	33.00	04/03/91
CL41	14357	811597	819019	50.76	12.90	7.79	07/03/91
CL42	14357	810600	818995	22.70	11.52	6.40	17/01/91
CL43	14357	810868	819007	37.74	8.95	3.43	21/01/91
CL44	14357	810690	818900	17.03	8.93	3.10	28/02/91
CL45	14357	810880	818920	22.14	28.14	4.11	21/01/91
CL46	14357	811065	818934	69.87	27.10	6.65	29/01/91
CL47	14357	811203	818928	52.97	9.98	4.65	08/02/91
CL48	14357	811394	818926	99.95	30.89	74.25	12/02/91
CL49	14357	811398	818971	88.93	42.75	37.75	28/02/91
CL50	14357	811457	818881	94.99	100.20	26.20	08/02/91
CL51	14357	810651	818757	26.65	19.42	12.20	08/02/91
CL52	14357	810918	818808	49.50	8.93	3.70	04/03/91
CL53	14357	811045	818750	106.46	46.16	41.00	08/03/91
CL54	14357	811168	818810	48.51	24.30	19.10	13/03/91

BH No	GIU No	EAST	NORTH	TOP LEVEL (mPD)	DEPTH (m)	ROCK DEPTH (m)	DATE FINISHED
CL55	14357	811392	818812	101.20	15.83	10.48	05/03/91
CL56	14357	811551	818778	60.20	10.93	5.80	07/03/91
CL57	14357	811660	818829	38.85	7.42	2.04	08/03/91
CL58	14357	811631	818679	40.84	7.64	2.20	06/03/91
CL59	14357	810800	818670	67.50	73.22	8.00	06/02/91
CL60	14357	810705	818590	31.20	6.50	1.20	11/02/91
CL61	14357	810890	818574	90.40	29.27	21.90	25/02/91
CL62	14357	811067	818605	107.42	112.73	14.45	01/02/91
CL63	14357	811340	818580	101.49	97.28	11.50	28/02/91
CL64	14357	811471	818582	64.98	10.51	5.35	02/03/91
CL65	14357	811576	818502	41.97	10.79	5.33	05/02/91
CL66	14357	810933	818408	63.07	67.90	11.25	25/01/91
CL67	14357	811466	818226	63.74	30.93	25.86	14/03/91
CL68	14357	811242	818444	65.62	12.00	6.40	18/03/91
CL69	14357	811679	818411	48.97	54.15	14.62	26/01/91
CL70	14357	811381	818349	69.94	75.60	18.12	08/03/91
CL71	14357	811225	818293	39.94	13.94	0.00	01/03/91
CL72	14357	810916	818219	31.29	10.78	5.60	28/01/91
CL73	14357	811152	818157	40.27	11.27	6.10	25/02/91
CL74	14357	811772	818295	30.09	9.66	4.45	02/02/91
CL75	14357	811595	818292	67.02	17.55	11.21	31/01/91
CL76	14357	811169	818071	24.32	6.11	1.10	08/02/91
CL77	14357	811275	818118	65.82	70.27	22.03	23/01/91
CL78	14357	811376	818104	58.41	12.76	7.60	25/01/91
CL79	14357	811470	817981	32.17	8.36	3.20	30/01/91
CL80	14357	811164	817904	24.52	12.42	7.30	05/02/91
CL81	14357	811335	817935	74.10	13.98	8.80	01/02/91
CL82	14357	811188	817829	40.15	17.68	12.65	06/03/91
CL83	14357	811331	817780	54.38	59.69	1.18	21/03/91
CL84	14357	811075	817727	24.07	11.03	5.90	04/03/91
CL85	14357	811430	817855	48.15	17.33	6.30	11/03/91
CL86	14357	811408	817686	33.82	35.44	4.30	28/02/91
CL87	14357	811535	817727	23.93	9.74	4.52	09/02/91
CL88	14357	811114	817609	31.70	23.61	18.50	12/03/91
CL89	14357	811195	817621	21.60	25.24	2.35	09/03/91
CL90	14357	810780	818749	52.16	48.10	42.40	23/03/91
CL91	14357	811285	817348	31.86	12.92	7.75	07/02/91
CL92	14357	811391	817376	48.32	8.36	3.23	05/02/91
CL93	14357	811476	817254	50.82	9.93	4.80	04/02/91
CL94	14357	811309	817165	65.92	71.02	13.90	26/01/91
CL95	14357	811146	817095	40.32	16.96	11.90	30/01/91
CL96	14357	811167	816996	35.98	10.24	5.15	01/02/91
TBL16	17057	811238	819717	12.67	41.02	12.60	20/10/92
TBL17A	17057	811341	819680	7.17	31.94	9.00	21/10/92
TBL18A	17057	811319	819706	7.40	11.90	3.60	24/10/92
TBL19A	17057	811294	819691	7.60	26.10	6.50	27/10/92
TBL20	17057	811303	819684	7.74	10.00	-	20/10/92
TBL21	17057	811402	819587	7.11	16.29	10.07	15/10/92
TBL22	17057	811450	819607	7.11	34.48	10.20	21/10/92
TBL23	17057	811408	819527	7.29	36.56	21.00	21/10/92
TBL24	17057	811461	819547	7.33	25.65	19.50	26/10/92
TBL25	17057	811373	819327	8.56	18.44	13.00	29/10/92

# Appendix 2

## Major and Trace Element Geochemistry of Selected Rocks from the Island

Sample Grid Ref Rock Type	HK8363 10690 19055 FINE-GRAINED GRANITE (MICROGRANITE)	HK10511 11139 19042 FINE-GRAINED GRANITE	HK10518 11309 17165 FINE- TO MEDIUM-GRAINED GRANITE	HK11586 11673 17240 LAMPROPHYRE
SiO <sub>2</sub>	76.40	76.19	75.71	63.08
TiO <sub>2</sub>	0.03	0.07	0.18	0.57
Al <sub>2</sub> O <sub>3</sub>	12.51	12.56	12.77	15.36
Fe <sub>2</sub> O <sub>3</sub> *	0.85	1.20	1.55	4.61
MnO	0.09	0.04	0.03	0.08
MgO	-	0.06	0.31	3.30
CaO	0.56	0.62	0.75	2.12
Na <sub>2</sub> O	4.15	3.42	3.17	3.76
K <sub>2</sub> O	4.57	5.39	4.77	4.01
P <sub>2</sub> O <sub>5</sub>	-	0.01	0.04	0.28
Total	99.16	99.56	99.28	97.17
LOI**	0.50	0.43	0.73	2.39
Cr	3	19	14	30
Ni	18	11	7	25
Co	3	2	6	12
V	3		15	
Cu	3			4
Pb	68	39	34	12
Zn	82	27	27	32
Sn	24.00	9.00	8.00	-
W	19.00	4.00	13.00	1.00
Mo	-			1.00
S	-			96.00
As	-		-	1.00
Rb	654	409	308	159
Ba	8	58	176	911
Sr	1	30	104	860
Ga	-	-		18
Nb	42.0	18.0	16.0	9.0
Zr	81	90	98	162
Y	137	56	28	19
Th	28.00	41.00	33.00	8.00
U	20.00	7.00	9.00	1.00
La	13.00	16.00	29.00	37.00
Ce	35.00	33.00	35.00	59.00
F				331.00
Density	2.30	2.30	2.31	2.39

Iron determined as ferric oxide  
Loss on ignition at 1000°C