

RFP 22-4025

Annex to scope of works: Summary data for Kiritimati Island usable monitoring boreholes and standpipes

Borehole or standpipe (S)	Location	Coordinates		Month & Year of installation	Depth of borehole (mbgl)	Tubes	
		Latitude N	Longitude W			No	Depths shown to nearest 0.5m (mbgl)
1. Decca boreholes & standpipes							
DE2	North of main road & northwest of Decca Gallery 3	2° 2' 37.0"	157° 28' 16.6"	Jul-82	15.85	5	6, 7.5, 9, 12 & 15
DE2(S)	PVC standpipe near borehole DE2	2° 2' 37.3"	157° 28' 16.4"	Jul-82			
DE3	Southeast of Decca gallery 1 & southwest of Decca gallery 2	2° 2' 22.3"	157° 28' 21.0"	Jul-82	24.0	6	6, 7.5, 9, 12, 15 & 23
DE4	South of borehole DE7 (Decca gallery 2)	2° 2' 23.3"	157° 28' 7.4"	Aug-82	15.95	5	4.5, 8, 9, 12 & 15
DE5	East of Decca gallery 2	2° 2' 29.7"	157° 27' 39.1"	Sep-82	19.0	6	4.5, 7, 9, 11.5, 14 & 17
DE5(S)	PVC standpipe near borehole DE5	2° 2' 29.3"	157° 27' 38.7"	Sep-82			
DE6	Centre of Decca gallery 1	2° 2' 31.9"	157° 28' 30.9"	May-98	16.9	5	4.5, 6, 9, 12 & 15
DE7	Centre of Decca gallery 2	2° 2' 25.9"	157° 28' 8.2"	May-98	16.5	5	4.5, 6, 9, 11.5 & 15
DE7(S)	PVC standpipe near borehole DE7	2° 2' 26.8"	157° 28' 7.8"	May-98			
DE8	Centre of Decca gallery 3	2° 2' 33.1"	157° 28' 3.1"	May-98	16.0	5	4.5, 6, 9, 12 & 14.5
DE9	South of boreholes DE4 and DE11	2° 2' 13.1"	157° 28' 6.2"	Aug-99	27.7	7	3.5, 9, 12, 12.5, 18, 21.5 & 26.5
DE10	North of main road to northeast of Decca gallery 3	2° 2' 42.5"	157° 27' 42.3"	Aug-99	27.7	7	6, 9, 12, 15, 18, 21.5 & 26.5
DE11	South of Decca gallery 2 and borehole DE4	2° 2' 17.5"	157° 28' 9.7"	Apr-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21

Borehole or standpipe (S)	Location	Coordinates		Month & Year of installation	Depth of borehole (mbgl)	Tubes	
		Latitude N	Longitude W			No	Depths shown to nearest 0.5m (mbgl)
DE12	Near west end of Decca lens & west of Decca gallery 1	2° 2' 31.7"	157° 28' 46.0"	Apr-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
DE13	East of Decca galleries 2 and 3 & west of borehole DE5	2° 2' 29.6"	157° 27' 48.3"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
DE14	Northeast of borehole DE13 & north of borehole DE5	2° 2' 35.5"	157° 27' 40.3"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
2. Four Wells boreholes							
FW1	North of Four Wells gallery 3	2° 2' 3.1"	157° 26' 7.5"	Aug-82	27.0	6	6, 7.5, 12, 14, 21 & 27
FW2	South of main road & east of Four Wells gallery 2	2° 2' 17.3"	157° 26' 58.0"	Sep-82	22.0	4	6, 12, 15 & 21
FW2(S)	PVC standpipe near borehole FW2	2° 2' 17.4"	157° 26' 58.0"	Sep-82			
FW4	South of Four Wells gallery 1	2° 2' 30.4"	157° 26' 33.5"	Sep-82	21.0	6	4, 7.5, 9, 11.5, 14 & 20
FW4(S)	PVC standpipe near borehole FW4	2° 2' 30.4"	157° 26' 33.2"	Sep-82			
FW5	Centre of Four Wells gallery 3	2° 1' 58.3"	157° 26' 9.7"	May-98	17.0	5	4.5, 6, 9, 12 & 15
FW6	Centre of Four Wells gallery 2	2° 2' 16.3"	157° 26' 22.6"	May-98	17.0	5	4, 6, 9, 12 & 15
FW7	East end of Four Wells gallery 1	2° 2' 29.8"	157° 26' 27.4"	May-98	16.9	5	4.5, 6, 9, 12 & 15
FW8	Near west end of Four Wells lens & east of borehole DE14	2° 2' 34.8"	157° 27' 12.7"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
FW9	East of borehole FW8 & 70m south of main road	2° 2' 29.5"	157° 26' 56.0"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
FW10	South of Four Wells gallery 1	2° 2' 26.8"	157° 26' 38.2"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
FW11	South of borehole FW10	2° 2' 21.4"	157° 26' 41.6"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
FW12	Southwest of Four Wells gallery 1 & north of FW gallery 2	2° 2' 22.3"	157° 26' 16.9"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21

Borehole or standpipe (S)	Location	Coordinates		Month & Year of installation	Depth of borehole (mbgl)	Tubes	
		Latitude N	Longitude W			No	Depths shown to nearest 0.5m (mbgl)
FW13	East of borehole FW12 & west of borehole FW2	2° 2' 18.4"	157° 26' 3.4"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
FW14	South of borehole FW13 & north of borehole FW1	2° 2' 12.3"	157° 26' 5.0"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
FW15	Between east end of FW gallery 1 & west end of FW gallery 2	2° 2' 7.7"	157° 26' 13.7"	May-15	22.0	7	4.5, 6, 9, 12, 15, 18 & 21
3. Banana boreholes							
BA8	Centre of Banana gallery 2	1° 59'30.5"	157° 21'55.4"	May-98	17.0	5	4, 6, 9, 12 & 15
BA15	North & approx. halfway along airport runway	1° 59'19.5"	157° 20'58.7"	Aug-99	27.7	7	6, 9, 12, 15, 18, 22 & 27
BA16	South of east end of airport runway near A1 road	1° 58'54.1"	157° 20'34.7"	Aug-99	27.7	7	5, 9, 12, 15, 18, 22 & 27
BA17	North of east end of airport runway near ocean	1° 59'17.8"	157° 20'14.9"	Aug-99	27.7	7	5.5, 9, 12, 14.5, 18, 22 & 27
4. New Zealand Airfield (NZA) boreholes							
NZ3	Northern part of NZA lens	1° 51'57.5"	157° 28'54.7"	Aug-82	16.0	6	4.5, 6, 7.5, 9, 12, 15
NZ4	Near eastern end of NZA lens	1° 50'1.3"	157° 28'3.4"	Sep-82	21.0	7	4.5, 6, 7.5, 9, 12, 16, 21
NZ4 (S)	PVC standpipe near borehole NZ4	1° 50'1.4"	157° 28'3.4"	Sep-82			
NZ5	Centre of NZA gallery	1° 51'48.0"	157° 29'51.2"	Aug-99	27.7	7	5.5, 9, 12, 15, 18, 22 & 27
NZ6	South of NZA gallery	1° 51'43.5"	157° 29'50.2"	Aug-99	27.7	7	6, 9, 12, 15, 18, 22 & 27
NZ7	North of NZA gallery	1° 51'59.7"	157° 29'46.0"	Aug-99	27.7	7	6, 9, 12, 15, 18, 22 & 27

Notes:

1. Light blue shading for latitude and longitude (in degrees, minutes and seconds) indicates these were obtained by conversion from either measured degrees and decimal minutes or UTM coordinates.
2. Depths of tubes were measured with a flexible wire at Decca and Four Wells boreholes in Sep 2015 and at Banana BA8 borehole in Sep 2019. The depths of tubes at the other boreholes are based on borehole logs in 1982, 1998 and 1999.