

Mauao Landslips 29 January 2011  
 Tonkin & Taylor Geotechnical Assessment

Slip Category	
Minor	(<1m <sup>3</sup> )
Small	(<5m <sup>3</sup> )
Medium	(5 to 20m <sup>3</sup> )
Large	(20 to 100m <sup>3</sup> )
Major	(>100m <sup>3</sup> )

Location	Tracks
Upslope	Base
Downslope	4WD
Both	Waikorire
Distant	Motu Kauri
	Oruahine
	Summit Bush Path
	Goat
	Lighthouse
	Lookout
	Stone Steps

Reference Number	Waypoint Number	Photograph Number(s)	Upslope / Downslope	Track	Size	Approximate Slip Debris Volume (m <sup>3</sup> )	Detailed Inspection / Mapping Completed	Concept Design Complete	Detailed Design & Peer Review Complete	Works Completed on Site	Works Inspected & Signed Off
1	113	9	Upslope	Base	Small	1	Not Req'd	Not Req'd	Not Req'd		
2	004	13-14	Distant	Base	Medium	20					
3	005	15-17	Upslope	Base	Small	5	Not Req'd	Not Req'd	Not Req'd		
4	007	18	Upslope	Base	Minor	0.5	Not Req'd	Not Req'd	Not Req'd		
5	008	19-20	Upslope	Base	Minor	0.5	Not Req'd	Not Req'd	Not Req'd		
6	009	21	Upslope	Base	Small	5	Not Req'd	Not Req'd	Not Req'd		
7	010	22	Upslope	Base	Small	3	Not Req'd	Not Req'd	Not Req'd		
8	013	27	Upslope	Base	Minor	0.5	Not Req'd	Not Req'd	Not Req'd		
9	014	28	Upslope	Base	Minor	0.25	Not Req'd	Not Req'd	Not Req'd		
10	015	29	Upslope	Base	Minor	0.25	Not Req'd	Not Req'd	Not Req'd		
11	016	30	Upslope	Base	Minor	0.25	Not Req'd	Not Req'd	Not Req'd		
12	017	31-35	Downslope	Base	Medium	10-20					
13	018	38-39	Upslope	Base	Small	1	Not Req'd	Not Req'd	Not Req'd		
14	019	40-42	Downslope	Base	Small	5					
15	022 & 023	45-75	Upslope	Base	Large	100					
16	025 & 119	79-92	Upslope	Base	Large	100					
17	026	93 & 94	Upslope	Base	Small	5	Not Req'd	Not Req'd	Not Req'd		
18	027	95 & 96	Upslope	Base	Medium	10					
19	028-031	97-113	Both	Base	Major	>100					
20	032	114	Upslope	Base	Minor	0.5	Not Req'd	Not Req'd	Not Req'd		
21	034	120-124	Upslope	Base	Large	60					
22	035	125	Upslope	Base	Minor	1	Not Req'd	Not Req'd	Not Req'd		
23	036	127	Upslope	Base	Minor	1	Not Req'd	Not Req'd	Not Req'd		
24	038	129	Upslope	Base	Minor	1	Not Req'd	Not Req'd	Not Req'd		
25	039	130	Upslope	Base	Small	3	Not Req'd	Not Req'd	Not Req'd		
26	040	131	Upslope	Base	Minor	0.5	Not Req'd	Not Req'd	Not Req'd		
27	041	132	Upslope	Base	Minor	1	Not Req'd	Not Req'd	Not Req'd		
28	043	134-138	Upslope	Base	Medium	15					
29	044	139	Upslope	Base	Minor	1	Not Req'd	Not Req'd	Not Req'd		
30	045	140	Upslope	Base	Small	3	Not Req'd	Not Req'd	Not Req'd		
31	046	141	Upslope	Base	Small	5	Not Req'd	Not Req'd	Not Req'd		
32	048	143	Upslope	Base	Small	2	Not Req'd	Not Req'd	Not Req'd		
33	049	145-148	Upslope	Base	Medium	20					
34	050 & 051	149-155	Upslope	Base	Large	40					
35	053	157	Upslope	Base	Minor	0.25	Not Req'd	Not Req'd	Not Req'd		
36	054	158	Upslope	Base	Minor	0.5	Not Req'd	Not Req'd	Not Req'd		
37	115		Upslope	Base	Minor	1	Not Req'd	Not Req'd	Not Req'd		
38	055	159	Upslope	Base	Small	5	Not Req'd	Not Req'd	Not Req'd		
39	058	168-169	Upslope	Stone Steps	Small	2	Not Req'd	Not Req'd	Not Req'd		
40	059 & 059A	170-178	Upslope	Base	Large	60					
41	061	187	Upslope	Lighthouse	Small	5	Not Req'd	Not Req'd	Not Req'd		
42	067 & 068	196-202	Distant	Lighthouse	Large	40					
43	069	203-206	Upslope	Lighthouse	Medium	20	Not Req'd	Not Req'd	Not Req'd		
44	070	207	Upslope	Lighthouse	Small	5	Not Req'd	Not Req'd	Not Req'd		
45	072	209	Upslope	Lighthouse	Minor	0.25	Not Req'd	Not Req'd	Not Req'd		
46	073	210	Upslope	Lighthouse	Minor	0.25	Not Req'd	Not Req'd	Not Req'd		
47	074	211	Upslope	Lighthouse	Minor	0.25	Not Req'd	Not Req'd	Not Req'd		
48	075	212	Upslope	Lighthouse	Minor	0.5	Not Req'd	Not Req'd	Not Req'd		
49	076	213	Downslope	Lighthouse	Minor	1					
50	080	220	Upslope	4WD	Minor	1	Not Req'd	Not Req'd	Not Req'd		
51	081	221	Upslope	4WD	Small	5	Not Req'd	Not Req'd	Not Req'd		
52	082	223-224	Upslope	4WD	Medium	25					
53	083	225-228	Upslope	4WD	Medium	25					
54	087	231-233	Upslope	Oruahine	Small	3	Not Req'd	Not Req'd	Not Req'd		
55	089	235-237	Downslope	Oruahine	Medium	10					
56	090 & 091	238-244	Downslope	Oruahine	Medium	20					
57	093	248	Upslope	4WD	Small	4	Not Req'd	Not Req'd	Not Req'd		
58	095	255	Upslope	4WD	Medium	8					
59	096	256-259	Distant	4WD	Medium	15					
60	120	260	Distant	4WD	Small	2	Not Req'd	Not Req'd	Not Req'd		
61	099	261	Upslope	4WD	Medium	10					
62	100-108	262-278	Upslope	4WD	Major	>100					
63	111	279-280	Upslope	4WD	Medium	20					
64	121	281-287	Upslope	4WD	Large	50					
65	112	288-289	Distant	Base	Small	5	Not Req'd	Not Req'd	Not Req'd		

