

TABLES

TABLE 1.1 – EGL MAPPING LOCATION SUMMARIES

Stop	Area	Locality	Type	X*	Y*	Lithology Interpretation	Units/ Weathering**	Seep Present	Additional Notes
1	Feature 1	Top Ridge	Outcrop	1320682.977	5017884.064	TZ3	MW		
2	Feature 1	Top Ridge	Outcrop	1320715.599	5017918.626	TZ3	MW		
3	Feature 1	Top Ridge	Slope	1320831.977	5017849.971	-			
4	Feature 1	Top Ridge	Outcrop	1321058.454	5017839.619	TZ3	MW		
5	Feature 1	Top Ridge	Outcrop	1320834.408	5017918.55	TZ3	MW		
6	Process Plant	Right Abutment	Outcrop	1316784.618	5018691.044	TZ3	MW		
7	Process Plant	Left Abutment	Subcrop	1316673.644	5018539.975	TZ4	MW		
8	Process Plant	Left Abutment	Subcrop	1316639.182	5018566.526	TZ4	MW		
9	Process Plant	Left Abutment	Subcrop	1316599.957	5018583.251	TZ4	MW		
10	Process Plant	Left Abutment	Stream	1316769.294	5018576.786	-			
11	Process Plant	Left Abutment	Outcrop	1316936.71	5018555.015	TZ3	MW		
12	Process Plant	Existing Dam	Structure	1316158.85	5018887.724	-			
13	Silt pond	Upstream Toe	Track Cut	1318248.366	5017981.945	Fill			
14	Silt pond	Upstream Toe	BH Pad	1318279.703	5017992.161	TZ3	HW		MDD044, MDD053
15	Feature 1	Western Gully	Subcrop	1320351.332	5018011.18	TZ3	MW		
16	Feature 1	Western Gully	Subcrop	1320300.314	5017935.922	TZ3	MW		
17	Feature 1	Western Gully	Seep	1320135.851	5017808.561	-		Y	
18	Feature 1	Western Gully	Subcrop	1320103.149	5017806.41	TZ3	MW		
19	Feature 1	Western Gully	Stream	1320090.939	5017805.048	-			
20	Feature 1	Western Gully	Outcrop	1320090.099	5017784.903	TZ3	MW		
21	Feature 1	Western Gully	Stream	1320073.805	5017766.308	-			
22	Feature 1	Western Gully	Scarp	1320087.714	5017739.551	Colluvium	Sandy Gravel	Y	
23	Feature 1	Western Gully	Outcrop	1320068.075	5017714.889	TZ3	MW		
24	Feature 1	Western Gully	Stream	1320056.939	5017697.978	-			
25	Feature 1	Western Gully	Outcrop	1320039.983	5017648.219	TZ3	SW		
26	Feature 1	Western Gully	Outcrop	1320063.876	5017537.792	TZ3	MW		
27	Feature 1	Western Gully	Outcrop	1320045.971	5017554.82	TZ3	MW		
28	Feature 1	Western Gully	Outcrop	1319960.131	5017523.218	TZ3	MW		
29	Feature 1	Western Gully	Stream	1319968.275	5017490.538	-			
30	Feature 1	Western Gully	Stream	1319953.556	5017465.358	-			
31	Feature 1	Eastern Gully	Seep	1320817.746	5017697.787	-		Y	

Stop	Area	Locality	Type	X*	Y*	Lithology Interpretation	Units/ Weathering**	Seep Present	Additional Notes
32	Feature 1	Eastern Gully	Seep	1320930.056	5017625.562	-		Y	
33	Feature 1	Eastern Gully	Outcrop	1320749.374	5017617.411	TZ3	MW		
34	Feature 1	Eastern Gully	Outcrop	1320760.423	5017557.727	TZ3	MW		
35	Feature 1	Eastern Gully	Outcrop	1320586.53	5017556.527	TZ3	MW		
36	Feature 1	Eastern Gully	Slope	1320621.365	5017562.961	-			
37	Feature 1	Eastern Gully	Slope	1320646.006	5017524.497	-			
38	Feature 1	Eastern Gully	Slope	1320653.03	5017492.605	-			
39	Feature 1	Eastern Gully	Seep	1320709.021	5017485.243	-		Y	
40	Feature 1	Eastern Gully	Scarp	1320750.11	5017480.675	Colluvium	Sandy Gravel	Y	
41	Feature 1	Eastern Gully	Scarp	1320774.952	5017467.475	Colluvium	Sandy Gravel		
42	Feature 1	Eastern Gully	Outcrop	1320825.522	5017465.579	TZ3	MW		
43	Feature 1	Eastern Gully	Seep	1320843.368	5017459.089	-		Y	
44	Feature 1	Eastern Gully	Stream	1320788.33	5017349.699	TZ3	MW		
45	Feature 1	Eastern Gully	Scarp	1320592.162	5017359.155	Colluvium	Sandy Gravel, Gravelly Sand	Y	
46	Feature 1	Eastern Gully	Scarp	1320500.545	5017314.372	Topsoil			
47	Feature 1	Eastern Gully	Scarp	1320542.151	5017272.782	Colluvium	Sandy Gravel	Y	
48	Feature 1	Eastern Gully	Outcrop	1320535.42	5017224.536	TZ3	MW		
49	Feature 1	Eastern Gully	Outcrop	1320419.107	5017173.22	TZ3	SW		
50	Feature 1	Eastern Gully	Outcrop	1320337.211	5017227.59	TZ3	MW		
51	Feature 1	Eastern Gully	Seep	1320321.67	5017292.681	TZ3	MW	Y	
52	Feature 1	Eastern Gully	Outcrop	1320080.112	5017278.588	TZ3	MW		
53	Jeans Creek	Southern slope	BH Pad	1319933.132	5015942.703	TZ3	HW		MDD095
54	Jeans Creek	Northeast Ridge	Drone	1320084.7	5016152.402	-			
55	TSF	Left Abutment	BH Pad	1319625.593	5017036.858	Colluvium	Sandy Gravel		MDD399
56	TSF	Left Abutment	Track Cut	1319657.433	5016934.37	TZ3	MW		
57	TSF	Left Abutment	Track Cut	1319572.91	5016928.699	TZ3	MW		
58	Jeans Creek	Northeast Ridge	Drone	1319778.33	5016613.377	-			
59	RAS	Southern slope	Track Cut	1319470.497	5015344.952	Loess	Loess		
60	Shepherds General	Southern slope	Track Cut	1318123.127	5017767.027	TZ3	MW		
61	ELF	Western Toe	Track Cut	1318530.813	5017912.432	TZ3	MW		

Stop	Area	Locality	Type	X*	Y*	Lithology Interpretation	Units/ Weathering**	Seep Present	Additional Notes
62	Sump	Center	Stream	1318502.566	5017960.086	Colluvium	Sandy Gravel		
63	Feature 1	Top Ridge	Drone	1320877.218	5017844.912	-			
64	Shepherds General	Northern Slope	BH Pad	1318618.181	5018356.84	Colluvium	Sandy Gravel		
65	Shepherds General	Northern Slope	Track Cut	1318425.689	5018407.61	Colluvium	Sandy Gravel		
66	Jeans Creek	Western Slope	Drone	1318940.123	5017426.818	-			
67	Jeans Creek	Western Slope	BH Pad	1319342.033	5016882.321	Colluvium	Sandy Gravel		MDD158
68	Jeans Creek	Western Slope	Track Cut	1319332.543	5016909.739	TZ3	HW		
69	Jeans Creek	Western Slope	Track Cut	1319296.416	5017010.178	TZ3	HW		
70	Jeans Creek	Western Slope	Track Cut	1319285.964	5017076.465	TZ3	Gravelly Sand, HW		
71	Jeans Creek	Western Slope	Track Cut	1319161.058	5017231.858	Colluvium and TZ3	Gravelly Sand, HW		
72	Shepherds General	Southern Slope	Track Cut	1318682.199	5017491.748	TZ3	MW		
73	TSF	Right Abutment	BH Pad	1319795.253	5017293.889	Colluvium	Gravelly Sand		MDD396
74	TSF	Valley Center	Stream	1319865.965	5017063.588	Alluvium	Sandy Gravel		
75	Feature 2	Scarp	Outcrop	1320187.621	5016962.016	TZ3	MW		
76	Feature 2	Scarp	Outcrop	1320244.767	5017023.524	TZ3	MW		
77	Feature 2	Scarp	Outcrop	1320305.524	5017024.832	TZ3	MW		
78	Feature 2	Scarp	Outcrop	1320431.407	5016955.469	TZ3	MW		
79	Feature 2	Scarp	Outcrop	1320467.733	5016905.173	TZ3	MW		
80	Feature 2	Scarp	Subcrop	1320379.989	5016899.922	TZ3	MW		
81	TSF	Valley Center	Track Cut	1320132.442	5016751.499	Colluvium	Gravelly Sand		
82	TSF	Valley Center	Track Cut	1320096.453	5016795.257	TZ3	HW		
83	TSF	Valley Center	Track Cut	1320077.906	5016807.743	Colluvium and TZ3	Gravelly Sand, HW		
84	TSF	Valley Center	Track Cut	1320028.675	5016857.285	Colluvium	Gravelly Sand		
85	TSF	Left Abutment	Track Cut	1319695.281	5017177.198	Colluvium	Gravelly Sand		
86	TSF	Left Abutment	Track Cut	1319485.435	5017326.196	Colluvium	Gravelly Sand		Slope angles measured at 20-25 degrees
87	ELF	Valley Center	Track Cut	1319385.815	5017481.49	Colluvium and TZ3	Gravelly Sand, MW		
88	ELF	Valley Center	Track Cut	1319309.166	5017544.951	Colluvium and TZ3	Gravelly Sand, HW		
89	ELF	Valley Center	Track Cut	1318898.39	5017784.75	TZ3	MW		

Stop	Area	Locality	Type	X*	Y*	Lithology Interpretation	Units/ Weathering**	Seep Present	Additional Notes
90	Silt pond	Valley Center	BH Pad	1318331.231	5017961.672	Fill			MDD468, MDD117R
91	Silt pond	Valley Center	BH Pad	1318297.801	5017979.23	Colluvium and TZ3	Gravelly Sand, HW		MDD044, MDD053
92	Silt pond	Valley Center	Track Cut	1318235.582	5017968.46	TZ3	MW		
93	Silt pond	Valley Center	Outcrop	1318199.152	5017955.199	TZ3	MW		
94	Jeans Creek	Western Slope	Drone	1318939.827	5017427.583	-			
95	Process Plant	Valley Center	Drone	1316730.29	5018634.784	-			
150	Feature 1	Center Gully	BH Pad	1320346.707	5017372.418	TZ3	CW		MDD491
151	Feature 1	Center Gully	Subcrop	1320333.166	5017500.764	TZ3	MW		Boulder Field
152	Feature 1	Center Gully	Subcrop	1320414.752	5017537.274	TZ3	MW		Boulder Field
153	Feature 1	Center Gully	Slope	1320418.403	5017612.26				
154	Feature 1	Center Gully	Slope	1320344.733	5017587.231				
155	Feature 1	Center Gully	Subcrop	1320281.974	5017601.022	TZ3	SW		
156	Feature 1	Center Gully	Slope	1320258.819	5017605.918				
157	Feature 1	Center Gully	Outcrop	1320251	5017585.734	TZ3	SW		
158	Feature 1	Center Gully	Subcrop	1320212.425	5017502.641	TZ3	MW		Boulder Field
159	Feature 1	Center Gully	Outcrop	1320160.333	5017491.053				
160	Feature 1	Center Gully	BH Pad	1320076.413	5017484.443	TZ3	CW		MDD493
161	Feature 1	Center Gully	Scarp	1320241.533	5017409.86	Colluvium	Sandy Silt		
162	Feature 1	Center Gully	Seep	1320140.738	5017365.167			Y	
163	Feature 1	Center Gully	Outcrop	1320093.145	5017321.25	TZ3	MW		
164	Feature 1	Center Gully	Track Cut	1320254.492	5017437.816				
200	TSF	Left Abutment	Track Cut	1319853.597	5017052.484	Colluvium	Gravel		
201	TSF	Left Abutment	Outcrop	1319801.32	5017044.19	Colluvium	Gravel		
202	TSF	Left Abutment	Outcrop	1319747.41	5017059.865	TZ3			Pelitic
203	TSF	Left Abutment	Scarp	1319693.75	5017049.37	Colluvium	Gravel minor boulders		
204	TSF	Left Abutment	Subcrop	1319698.673	5017016.502	TZ3	MW		Pelitic
205	TSF	Left Abutment	Subcrop	1319576.014	5017076.298	Colluvium and Loess	Blocks		Pelitic
206	TSF	Left Abutment	Outcrop	1319509.785	5017118.188	Colluvium	Blocks		
207	TSF	Left Abutment	Subcrop	1319499.369	5017124.65	Loess			
208	TSF	Left Abutment	Outcrop	1319461.687	5017153.579	TZ3	SW		Pelitic

Stop	Area	Locality	Type	X*	Y*	Lithology Interpretation	Units/ Weathering**	Seep Present	Additional Notes
209	TSF	Left Abutment	Subcrop	1319400.872	5017266.237				
210	TSF	Left Abutment	Outcrop	1319390.035	5017321.713	TZ3	MW		Pelitic
211	TSF	Left Abutment	Outcrop	1319351.498	5017338.385	TZ3	SW		Pelitic
212	TSF	Left Abutment	Outcrop	1319326.149	5017443.767	TZ3	SW		
213	TSF	Left Abutment	Outcrop	1319256.977	5017490.983	TZ3	SW		Pelitic
214	TSF	Left Abutment	Outcrop	1319315.472	5017451.638	TZ3	SW		
215	TSF	Left Abutment	Subcrop	1319510.659	5017233.264	Colluvium	Boulders - SW		
216	TSF	Left Abutment	Outcrop	1319522.12	5017202.139	Colluvium	Boulders - SW		Pelitic
216S	TSF	Left Abutment	Outcrop	1319544.391	5017207.391	Colluvium	Boulders - SW		Pelitic
217	TSF	Left Abutment	Outcrop	1319571.22	5017190.689	Colluvium	Gravel minor boulders		
218	TSF	Left Abutment	Outcrop	1319592.385	5017129.251	TZ3	HW		Pelitic
219	TSF	Left Abutment	Outcrop	1319609.722	5017143.072	TZ3	MW		Pelitic
219S	TSF	Left Abutment	Outcrop	1319638.685	5017136.095	TZ3	MW		Pelitic
220	TSF	Left Abutment	Outcrop	1319660.369	5017146.852	TZ3	MW		Pelitic
221	TSF	Left Abutment	Outcrop	1319695.19	5017138.918	TZ3	MW		Pelitic
222	TSF	Left Abutment	Outcrop	1319624.95	5017177.75	TZ3	CW		
223	TSF	Left Abutment	Subcrop	1319589.386	5017232.055	Colluvium	Gravel minor boulders		
225	TSF	Left Abutment	Outcrop	1319568.24	5017231.25	TZ3	HW		Pelitic
226	Process Plant	Southern Slope	Subcrop	1316668.825	5018547.389	TZ4	MW		
227	Process Plant	Southern Slope	Subcrop	1316629.68	5018568.76	TZ4	MW		
228	Process Plant	Southern Slope	Subcrop	1316598.375	5018582.605	TZ4	MW		
229	Process Plant	Southern Slope	Subcrop	1316592.709	5018592.495	TZ4	MW		
230	Process Plant	Southern Slope	Subcrop	1316578.323	5018624.754	TZ4	MW		
231	Process Plant	Southern Slope	Subcrop	1316613.103	5018621.937	TZ4	MW		
232	TSF	Right Abutment	Subcrop	1319601.843	5017534.678	TZ3	MW		Psammitic
233	TSF	Right Abutment	Subcrop	1319485.749	5017511.748	TZ3	MW		Psammitic
234J	TSF	Right Abutment	Outcrop	1319448.52	5017545.11	TZ3	MW		Psammitic
234S	TSF	Right Abutment	Outcrop	1319479.796	5017579.702	TZ3	MW		
235	TSF	Right Abutment	Outcrop	1319441.098	5017567.935	TZ3	MW		Psammitic
236	TSF	Right Abutment	Outcrop	1319493.935	5017582.818	TZ3	MW		Psammitic
237	TSF	Right Abutment	Outcrop	1319537.454	5017618.732	TZ3	MW		Psammitic

Stop	Area	Locality	Type	X*	Y*	Lithology Interpretation	Units/ Weathering**	Seep Present	Additional Notes
238	TSF	Right Abutment	Outcrop	1319604.594	5017634.003				Discussion Stop
239	TSF	Right Abutment	Outcrop	1319692.449	5017557.051	TZ3	MW		Psammitic
240	TSF	Right Abutment	Outcrop	1319759.63	5017510.539	TZ3	MW		Psammitic
241	TSF	Right Abutment	Outcrop	1319782.731	5017489.125	TZ3	MW		Psammitic
242	TSF	Right Abutment	Outcrop	1319858.59	5017473.422	TZ3	MW		Psammitic
243	TSF	Right Abutment	Outcrop	1319874.869	5017516.306	TZ3	MW		Psammitic
244	TSF	Right Abutment	Outcrop	1319942.998	5017561.658	TZ3	HW		Psammitic
245	TSF	Right Abutment	Outcrop	1319996.457	5017584.297	TZ3	MW		Psammitic
246	TSF	Right Abutment	Outcrop	1320009.01	5017577.609	TZ3	MW		Psammitic
247	TSF	Right Abutment	Outcrop	1320044.285	5017613.445	TZ3	MW		Psammitic
248	TSF	Right Abutment	Outcrop	1319952.783	5017523.417	TZ3	MW		Psammitic
249	TSF	Right Abutment	Outcrop	1320091.035	5017463.383	TZ3	MW		Psammitic
250	TSF	Right Abutment	Outcrop	1319807.705	5017406.046	TZ3	MW		Psammitic
251	TSF	Right Abutment	Outcrop	1320056.301	5017484.362	TZ3	MW		Psammitic
252	TSF	Right Abutment	Outcrop	1320048.33	5017469.91	TZ3	HW		Psammitic
253	TSF	Right Abutment	Outcrop	1320064.52	5017532.27	TZ3	MW		Psammitic
254	TSF	Right Abutment	Subcrop	1320078.883	5017646.161	TZ3	HW		
255	TSF	Right Abutment	Outcrop	1320046.258	5017638.759	TZ3	MW		Psammitic
256	TSF	Right Abutment	Outcrop	1320108.988	5017576.211	TZ3	MW		Psammitic
257	TSF	Right Abutment	Subcrop	1320012.606	5017445.364	TZ3	HW		
258	TSF	Right Abutment	Outcrop	1319982.477	5017405.481	TZ3	HW		Psammitic
259	TSF	Center Gully	Track Cut	1318901.45	5017779.395	TZ3			Pelitic
270	TSF	Left Abutment	Outcrop	1319850.683	5016997.185	TZ3	MW		Pelitic
271	TSF	Left Abutment	Outcrop	1319838.032	5016990.115	TZ3	MW		Pelitic
273	TSF	Left Abutment	Outcrop	1319756.543	5016962.021		MW		
273	TSF	Left Abutment	Outcrop	1319742.217	5016950.859	TZ3	MW		Pelitic
274	TSF	Left Abutment	Outcrop	1319723.798	5016961.463		MW		
275	TSF	Left Abutment	Outcrop	1319747.054	5016932.998		MW		
276	TSF	Left Abutment	Outcrop	1319661.1	5016929.649	TZ3	HW		Pelitic
277	TSF	Left Abutment	Outcrop	1319675.798	5016923.323	TZ3	MW		Pelitic
278	TSF	Left Abutment	Outcrop	1319641.67	5016811.52	TZ3			Bluff viewed from afar
279	TSF	Left Abutment	Outcrop	1319698.47	5016770.59	TZ3			Bluff viewed from afar

Stop	Area	Locality	Type	X*	Y*	Lithology Interpretation	Units/ Weathering**	Seep Present	Additional Notes
280	TSF	Left Abutment	Outcrop	1319702.108	5016810.941	TZ3			Bluff viewed from afar
Sample 1	Pit	On Track	Track Cut	1318030.657	5017406.413	Topsoil and Colluvium			For Zone 1A Testing
Sample 2	TSF	Center Gully	Track Cut	1319745.502	5017174.457	Alluvium			For Zone 1A Testing
Sample 3	Pit	On Track	Track Cut	1317985.185	5017490.643	Loess			For Zone 1A Testing
Sample 4	Pit	On Track	Track Cut	1318043.958	5017800.803	Completely Weathered Schist			For Zone 1A Testing

*X and Y Coordinates are in NZTM, based on in field GPS and map locations

** SW = Slightly Weathered

MW = Moderately Weathered

HW = Highly Weathered

CW = Completely Weathered

TABLE 1.2 – IN FIELD GEOLOGY STRUCTURAL MEASUREMENTS

Stop	Type	Dip	Dip Direction
1	Foliation	8	302
2	Foliation	22	290
4	Foliation	32	238
5	Foliation	22	256
6	Foliation	20	82
6	Foliation	30	150
7	Foliation	12	88
8	Foliation	22	44
9	Foliation	8	85
11	Foliation	18	85
16	Foliation	29	79
16	Foliation	24	302
18	Foliation	34	306
20	Foliation	24	38
23	Foliation	12	286
25	Foliation	18	308
26	Foliation	12	270
27	Foliation	8	208
28	Foliation	24	276
33	Foliation	32	252
34	Foliation	22	242
35	Foliation	12	200
42	Foliation	18	312
44	Foliation	12	246
47	Foliation	32	329
48	Foliation	28	332
48	Foliation	20	264
48	Foliation	10	50
49	Foliation	31	342
50	Foliation	27	336
51	Foliation	31	342
52	Foliation	16	346
53	Foliation	15	138
53	Joint	80	270
55	Foliation	35	355
56	Foliation	28	28
57	Foliation	22	360
61	Foliation	28	12
62	Foliation	12	25
68	Foliation	24	35
70	Foliation	20	285
72	Foliation	28	18

Stop	Type	Dip	Dip Direction
72	Joint	82	320
73	Gravel Bed	15	190
75	Foliation	30	314
76	Foliation	22	216
76	Foliation	16	226
76	Foliation	14	220
78	Foliation	28	354
78	Foliation	31	360
78	Joint	40	210
79	Foliation	36	324
79	Foliation	30	338
79	Joint	68	202
79	Joint	70	126
80	Foliation	28	24
88	Foliation	32	355
89	Foliation	34	18
91	Foliation	20	12
92	Foliation	32	35
93	Foliation	20	18
93	Joint	60	190
157	Foliation	18	38
157	Foliation	52	48
159	Foliation	28	56
163	Foliation	18	28
202	Joint	40	20
202	Joint	70	25
202	Joint	70	190
202	Joint	68	222
202	Foliation	12	222
202	Foliation	135	230
202	Foliation	18	288
203	Foliation	22	219
204	Foliation	14	355
205	Joint	82	136
205	Foliation	12	162
205	Foliation	10	350
208	Foliation	12	18
208	Foliation	18	27
208	Joint	72	157
208	Joint	75	188
209	Foliation	18	228
210	Joint	80	115

Stop	Type	Dip	Dip Direction
210	Joint	83	142
210	Joint	72	192
210	Foliation	12	198
210	Foliation	10	282
211	Joint	75	18
211	Foliation	6	268
211	Foliation	20	278
211	Joint	82	333
213	Foliation	23	24
213	Foliation	8	26
213	Joint	88	327
214	Foliation	12	6
216	Foliation	8	155
218	Foliation	9	108
218	Foliation	12	228
218	Foliation	15	230
218	Foliation	8	270
219	Joint	32	52
219	Foliation	28	218
219	Foliation	25	222
219	Joint	83	225
219	Foliation	34	238
220	Joint	69	28
220	Joint	65	35
220	Foliation	38	208
221	Joint	80	121
221	Foliation	28	225
221	Joint	22	238
221	Foliation	17	241
222	Foliation	22	238
223	Foliation	12	224
225	Foliation	8	204
226	Foliation	16	175
231	Foliation	2	175
232	Foliation	22	110
232	Foliation	23	135
232	Foliation	24	176
232	Joint	88	265
233	Foliation	25	325
233	Foliation	22	328
234	Foliation	45	180
234	Foliation	46	181
234	Joint	88	215
234	Foliation	23	260

Stop	Type	Dip	Dip Direction
235	Foliation	9	258
235	Foliation	11	290
236	Foliation	5	85
236	Foliation	5	110
237	Foliation	18	335
239	Joint	80	115
239	Joint	85	118
239	Joint	79	236
239	Foliation	12	240
240	Joint	72	115
240	Joint	68	140
240	Foliation	18	290
241	Joint	75	115
241	Joint	88	195
241	Foliation	25	280
242	Joint	70	28
242	Foliation	20	275
243	Joint	73	18
243	Foliation	12	248
244	Joint	65	55
244	Foliation	19	256
245	Joint	85	172
245	Joint	69	245
245	Foliation	12	260
246	Joint	68	58
246	Joint	80	120
246	Joint	86	175
246	Foliation	18	265
247	Joint	68	62
247	Joint	80	178
247	Foliation	15	270
248	Joint	85	165
248	Joint	88	172
248	Foliation	15	264
249	Joint	82	125
249	Joint	83	126
249	Joint	78	240
249	Foliation	5	270
249	Foliation	15	282
250	Joint	78	210
250	Foliation	16	310
251	Joint	78	51
251	Joint	79	201
251	Foliation	8	303

Stop	Type	Dip	Dip Direction
252	Joint	56	67
252	Foliation	37	248
253	Joint	71	12
253	Foliation	22	226
253	Joint	88	307
255	Foliation	17	252
255	Joint	84	322
255b	Joint	88	324
256	Foliation	26	30
256	Joint	82	68
257	Joint	62	64
257	Foliation	17	197
258	Foliation	44	226
258	Joint	82	245
259	Foliation	32	10
259	Foliation	25	35
270	Joint	44	20
270	Foliation	5	228
271	Foliation	20	222
272	Foliation	34	222
273	Foliation	15	280
274	Joint	85	110
274	Joint	60	190
274	Foliation	13	332
275	Joint	60	88
275	Foliation	23	302
276	Foliation	34	70
277	Foliation	25	25
278	Joint	62	55
278	Joint	75	82
278	Foliation	8	295
279	Joint	75	80
280	Joint	48	5
280	Joint	70	40
280	Foliation	38	236
280	Foliation	22	242

TABLE 2. SUMMARY OF BOREHOLE INVESTIGATIONS.

Borehole Number	Easting (mE)	Northing (mN)	Elevation (mRL)	Depth (m)	Inclination (°)	Orientation (°)	Reason for termination
MDD327	1319076	5015882	758	70.0	Vertical	-	Target depth
MDD333	1318599	5016226	736	45.0	Vertical	-	Target depth
MDD362	1316258	5018870	409.3	35.0	Vertical	-	Target depth
MDD365	1316751	5018614.70	430.6	44.3	Vertical	-	Target depth
MDD394	1319759.6	5017190.4	594.6	30.0	Vertical	-	Target depth
MDD396	1319794.5	5017294.5	628.2	70.1	80	207	Target depth
MDD399	1319629.1	5017032.7	683.9	70.1	70	025	Target depth
MDD491	1320339.19	5017366.39	743.83	100.1	70	360	Target depth
MDD493	1320074.6	5017485.89	724.14	100.0	70	020	Target depth
MDD502	1319677	5017262	588.68	32	70.96	120	Target Depth
MDD506	1319739	5017165	593.96	51	70.11	220	Target Depth
MDD507	1319760	5017196	594.69	7.3	50	020	Poor Recovery
MDD507R	1319759	5017195	594.73	33	50	020	Terminated 7m before target depth.
MDD514	1319766	5017193	595.49	15	Vertical	-	Target Depth
MDD515	1319762	5017186	595.35	21	Vertical	-	Target Depth
MDD516	1319758	5017181	594.98	10	Vertical	-	Target Depth
MDD517	1319741	5017159	594.3	10	Vertical	-	Target Depth
MDD518	1319747	5017156	594.8	14.3	Vertical	-	Target Depth
MDD519	1319755	5017176	594.8	21	Vertical	-	Target Depth
MDD498	1316904	5018627	431.07	12.5	Vertical	-	Target Depth
MDD499	1316886	5018627	430.31	26	Vertical	-	Target Depth
MDD500	1316831	5018628	429.02	13.3	Vertical	-	Target Depth
MDD503	1316695	5018642	424.95	12	Vertical	-	Target Depth
MDD505	1316727	5018587	432.68	13.07	Vertical	-	Terminated 17.93m before target depth.

Borehole Number	Easting (mE)	Northing (mN)	Elevation (mRL)	Depth (m)	Inclination (°)	Orientation (°)	Reason for termination
MDD505R	1316726	5018586	432.61	31	Vertical	-	Target Depth
MDD508	1316472	5018707	417.15	12.5	Vertical	-	Target Depth
MDD510	1316600	5018637	424.17	11.4	Vertical	-	Target Depth
MDD511	1316780	5018599	433.9	18	Vertical	-	Target Depth
MDD512	1316745	5018580	435.46	20	Vertical	-	Target Depth

TABLE 3. SUMMARY OF TEST PIT INVESTIGATIONS.

Test Pit Number	Easting (mE)	Northing (mN)	Elevation (mRL)	Depth (m)	Reason for termination	Groundwater Depth
EGLTP01	1318256	5016437	734.7	2.5	Refusal	-
EGLTP02	1318356	5016320	735.5	1.9	Refusal	1.8
EGLTP03	1318419	5016227	745.0	1.8	Refusal	-
EGLTP04	1318596	5016244	743.2	2.6	Refusal	1.7
EGLTP05	1318484	5016163	750.4	0.9	Refusal	-
EGLTP06	1318625	5016210	741.7	2.4	Refusal	2.2
EGLTP07	1318837	5015974	754.9	2.4	Refusal	-
EGLTP08	1318895	5015999	754.9	2.9	Refusal	-
EGLTP09	1318988	5016001	761.0	1.3	Refusal	-
EGLTP10	1319080	5015894	759.3	2.7	Refusal	2.0
EGLTP11	1318906	5015709	825.5	0.4	Refusal	-
EGLTP12	1318819	5015847	788.2	0.3	Refusal	-
MTP01	1316671	5018646	-	6.0	Target Depth	5.6
MTP02	1316500	5018713	-	6.0	Target Depth	4.0
MTP03	1316387	5018772	-	4.0	Refusal	3.0
MTP04	1316380	5018755	-	4.1	Refusal	-
MTP05	1316420	5018812	-	7.0	Target Depth	-
MTP06	1316414	5018801	-	7.0	Target Depth	5.0
MTP07	1316356	5018867	-	6.0	Target Depth	-
MTP08	1316041	5019118	-	5.0	Refusal	4.5
MTP09	1316100	5019058	-	7.0	Target Depth	5.0
MTP10	1315960	5019155	-	7.0	Target Depth	7.0
MTP11	1315942	5019119	-	5.0	Target Depth	3.8
MTP12	1316133	5018989	-	6.0	Refusal	3.5
MTP13	1316232	5018841	-	6.5	Target Depth	-
MTP14	1316087	5019006	-	6.5	Target Depth	6.2
MTP15	1316144	5018940	-	4.5	Refusal	3.2
MTP16	1316288	5018828	-	6.5	Target Depth	6.0
MTP17	1316345	5018779	-	1.0	Refusal	-
MTP18	1316358	5018814	-	6.5	Target Depth	4.0
MTP19	1316306	5018800	-	2.5	Refusal	-
MTP20	1316428	5018725	-	5.5	Refusal	-
MTP21	1317720	5018320	-	2.5	Refusal	-
MTP22	1317605	5018412	-	5.5	Refusal	3.8
MTP23	1316871	5018638	-	6.0	Target Depth	3.0
MTP24	1316764	5018601	-	7.5	Target Depth	-
MTP25	1316746	5018646	-	4.5	Refusal	3.0
MTP26	1316056	5018915	-	3.5	Refusal	-
MTP27	1319109	5017662	-	3.0	Refusal	-
MTP28	1319221	5017654	-	2.0	Refusal	1.8
MTP29	1318550	5017889	-	2.8	Refusal	2.8
MTP30	1318491	5017956	-	3.5	Refusal	3.5
MTP31	1318383	5017970	-	2.3	Refusal	2.3
MTP32	1318478	5017971	-	0.0	Refusal	-

MTP33	1319852	5017117	-	5.0	Refusal	-
MTP34	1319901	5016998	-	3.0	Refusal	-
MTP35	1319709	5017224	-	3.2	Refusal	-
MTP36	1319779	5017103	-	4.4	Refusal	-
MTP37	1318345	5018273	-	2.8	Refusal	2.7
MTP38	1319594	5017241	-	3.0	Refusal	-
MTP39	1319409	5017431	-	2.4	Refusal	2.3
MTP40	1315509	5019447	-	7.0	Target Depth	-
MTP41	1315509	5019488	-	7.5	Target Depth	-
MTP42	1315293	5019891	-	7.0	Target Depth	-
MTP43	1315234	5019984	-	6.0	Target Depth	-
MTP44	1315206	5019965	-	7.0	Target Depth	-
MTP45	1315045	5020491	-	6.0	Target Depth	-
MTP46	1315063	5020510	-	6.5	Target Depth	-
MTP47	1316637	5018629	423.398	2.8	Target Depth	-
MTP48	1316660	5018644	423.651	3.1	Target Depth	-
MTP49	1316659	5018632	423.297	3.1	Target Depth	-
MTP050	1316726	5018592	431.79	4.1	Target Depth	-
MTP051	1316720	5018581	432.317	6.9	Target Depth	-
MTP052	1316732	5018648	426.829	3.2	Target Depth	-
MTP053	1316803	5018621	430.258	3.8	Target Depth	-
MTP054	1316821	5018591	431.624	3.6	Target Depth	-
MTP055	1316891	5018614	431.521	3.5	Target Depth	-
MTP056				4.2	Target Depth	-

Note: RL of test pits to be confirmed

TABLE 4 – SUMMARY OF VIBRATING WIRE PIEZOMETER INSTALLATIONS

BH ID	Piezo Type	Tip Depth (m bgl)	Tip Level (RL)	Geology	Area
MDD327	Vibrating wire	9.7	748.3	TZ3	Rise and Shine Creek
MDD327	Vibrating wire	34.3	723.7	TZ3	Rise and Shine Creek
MDD327	Vibrating wire	63.3	694.7	TZ4	Rise and Shine Creek
MDD333	Vibrating wire	10.0	726.0	TZ3	Rise and Shine Creek
MDD333	Vibrating wire	28.0	708.0	TZ3	Rise and Shine Creek
MDD333	Vibrating wire	38.0	698.0	TZ4	Rise and Shine Creek
MDD362	Vibrating wire	5.0	404.3	TZ3	Process Plant
MDD362	Vibrating wire	15.0	394.3	TZ3	Process Plant
MDD362	Vibrating wire	30.0	379.3	TZ3	Process Plant
MDD365	Vibrating wire	5.0	425.6	TZ3	Process Plant
MDD365	Vibrating wire	15.0	415.6	TZ3	Process Plant
MDD365	Vibrating wire	32.0	398.6	TZ3	Process Plant
MDD394	Vibrating wire	10.0	584.6	TZ3	TSF
MDD394	Vibrating wire	15.0	579.6	TZ3	TSF
MDD394	Vibrating wire	25.0	569.6	TZ3	TSF
MDD396	Vibrating wire	25.0	603.2	TZ3	TSF
MDD396	Vibrating wire	45.0	583.2	TZ3	TSF
MDD396	Vibrating wire	59.0	569.2	TZ3	TSF
MDD399	Vibrating wire	35.1	648.9	TZ3	TSF
MDD399	Vibrating wire	45.1	638.9	TZ3	TSF
MDD399	Vibrating wire	65.1	618.8	TZ3	TSF
MDD491	Vibrating wire	20	725.6	TZ3	Feature 1
MDD491	Vibrating wire	40	707.3	TZ3	Feature 1
MDD491	Vibrating wire	65	684.5	TZ3	Feature 1
MDD491	Vibrating wire	98	654.4	TZ3	Feature 1
MDD493	Vibrating wire	11.1	714.0	TZ3	Feature 1
MDD493	Vibrating wire	23.6	702.6	TZ3	Feature 1
MDD493	Vibrating wire	49.1	679.3	TZ3	Feature 1
MDD493	Vibrating wire	89.1	642.8	TZ3	Feature 1
MDD502	Vibrating wire	10.0	578.68	TZ3	TSF
MDD502	Vibrating wire	15.0	573.68	TZ3	TSF
MDD502	Vibrating wire	30.0	558.68	TZ3	TSF
MDD506	Vibrating wire	3.6	582.86	TZ3	TSF
MDD506	Vibrating wire	23.6	570.36	TZ3	TSF
MDD506	Vibrating wire	49.1	544.86	TZ3	TSF
MDD506	Vibrating wire	89.1	504.86	TZ3	TSF
MDD499	Vibrating wire	6	424.3	TZ3 Residual Soil	Process Plant
MDD499	Vibrating wire	16	414.3	TZ3	Process Plant
MDD508	Vibrating wire	4.8	412.4	Colluvium	Process Plant
MDD508	Vibrating wire	9.8	407.4	TZ4	Process Plant

MDD511	Vibrating wire	10.7	423.1	TZ3 Residual Soil	Process Plant
MDD511	Vibrating wire	17.2	416.6	TGF	Process Plant

TABLE 5 – SUMMARY OF STANDPIPE PIEZOMETER INSTALLATIONS

BH ID	Piezo Type	Screen Depth	Geology	Area
MDD498	Standpipe	5.0-6.0	TZ3 Residual Soil	Process Plant
MDD500	Standpipe	5.0-6.0	TZ3 Residual Soil	Process Plant
MDD503	Standpipe	4.5-5.5	Alluvium	Process Plant
MDD510	Standpipe	3.0-4.0	TZ3 Residual Soil	Process Plant
MDD512	Standpipe	12.5-15.5	TZ4 Residual Soil	Process Plant
MDD514	Standpipe	10.0-15.0	TZ3	TSF
MDD515	Standpipe	15.0-21.0	TZ3	TSF
MDD516	Standpipe	6.3-9.9	Alluvium	TSF
MDD517	Standpipe	4.5-10.0	TZ3	TSF
MDD518	Standpipe	10.0-14.3	TZ3	TSF
MDD519	Standpipe	14.3-21.0	TZ3	TSF

TABLE 6.1 – SUMMARY OF PERMEABILITY TESTING

BH ID	Test Interval	Test Method	k (m/s)
MDD502	3.9 to 9.7 m	FH01 Manual Dip	9.29 E-08
	8.2 to 15 m	FH02 Manual Dip	*
	15 to 21.2 m	FH03 Manual Dip	*
	21 to 27 m	FH04 Manual Dip	*
	3.9 to 9.7 m	FH01 Level Logger	6.62 E-08
	8.2 to 15 m	FH02 Level Logger	*
	15 to 21.2 m	FH03 Level Logger	*
	21 to 27 m	FH04 Level Logger	*
MDD506	2.2 to 9 m	FH01 Manual Dip	3.75E-08
	9.1 to 15 m	FH02 Manual Dip Early Response	1.44 E-06
	16 to 21 m	FH03 Manual Dip Early Response	6.68 E-07
	21 to 27 m	RH01 Manual Dip	1.75 E-07
	27 to 33 m	RH02 Manual Dip	1.41 E-07
	33 to 39 m	RH03 Manual Dip	9.50 E-08
	39 to 45 m	RH04 Manual Dip	2.65 E-08
	45 to 51m	RH05 Manual Dip	2.06 E-08
	2.2 to 9 m	FH01 Level Logger Early Response	3.54 E-07
	9.1 to 15 m	FH02 Level Logger Early Response	1.08 E-06
	16 to 21 m	FH03 Level Logger Early Response	6.31 E-07
	21 to 27 m	RH01 Level Logger	1.39 E-07
	27 to 33 m	RH02 Level Logger	1.18 E-07
MDD507R	3 to 9.8 m	FH01 Manual Dip	*
	9.8 to 15.2 m	FH02 Manual Dip	5.23 E-07
	15.2 to 21 m	FH03 Manual Dip	*
	21 to 27 m	RH01 Manual Dip	2.26 E-07
	27 to 33 m	RH02 Manual Dip	2.36 E-07

*Note: insufficient head difference generated during testing

TABLE 6.2 – SUMMARY OF PERMEABILITY TESTING – PACKER TEST

BH ID	Test Interval	k (m/s)
MDD286	51.25 to 59 m	7.31 E-08
MDD286	76.1 to 82.3 m	1.92 E-08
MDD286	128.6 to 135.6 m	1.59 E-07
MDD286	186.4 to 191.5 m	1.96 E-07
MDD286	205.7 to 212 m	8.49 E-08
MDD286	213.3 to 226.3 m	1.23 E-08
MDD287	78.3 to 84.2 m	6.77 E-10
MDD287	158.2 to 167 m	4.16 E-09
MDD287	170.9 to 185 m	3.91 E-10
MDD327	48.1 to 49.4 m	No flow
MDD327	63.1 to 64.4 m	1.78 E-08
MDD362	20.7 to 28.2 m	1.25 E-07
MDD362	29.9 to 35 m	2.14 E-09
MDD365	35.3 to 41.3 m	1.07 E-08
MDD394	11.5 to 16 m	1.06 E-07
MDD394	23 to 28.4 m	3.07 E-08
MDD396	19 to 22 m	No flow
MDD396	41.3 to 44.4 m	No flow
MDD396	50.4 to 54 m	3.59 E-08
MDD396	61 to 64 m	3.20 E-08
MDD396	64 to 70.1 m	1.81 E-09
MDD399	62.2 to 65.3 m	6.40 E-07
MDD502	26.1 to 32 m	No flow
MDD506	39 to 45 m	1.69 E-09
MDD506	39 to 51 m	6.47 E-09
MDD507R	11.9 to 27 m	7.38 E-09
MDD507R	14.3 to 27 m	1.12 E-09
MDD507R	22.6 to 27 m	5.87 E-08

TABLE 7 – SUMMARY OF POST DRILLING TESTING

BH ID	Test type	Depth Range (m)	Date	Notes
MDD333	Televiewer	0.0-43.8	15/06/2024	
MDD333	Full Wave Sonic	0.78-42.16	15/06/2024	
MDD365	Full Wave Sonic	24.6-40.9	18/09/2024	
MDD394	Televiewer	1.4-30.4	10/12/2024	
MDD394	Full Wave Sonic	7.4-29.4	10/12/2024	
MDD399	Televiewer	1.9-70.3	18/01/2025	
MDD491	Televiewer	5.1-99	1/04/2025	
MDD491	Full Wave Sonic	16.9-98.9	1/04/2025	
MDD493	Televiewer	1.6-99.7	16/01/2026	
MDD493	Full Wave Sonic	7.8-99.7	16/01/2026	
MDD502	Televiewer	0.4-31.8	14/02/2026	
MDD502	Full Wave Sonic	1.3-31.3	14/02/2026	
MDD505R	Downhole Shear Wave	1.0-30.0	24-25/02/2026	MASW testing carried out at the same time
MDD506	Televiewer	1.8-44.1	24/02/2026	
MDD515	Televiewer	0.4-20.5	15/03/2026	
MDD515	Full Wave Sonic	1.0-20.5	15/03/2026	
MDD519	Televiewer	1.3-19.3	23/03/2026	

TABLE 8.1 – FINE CONTENT TEST SUMMARY

Hole ID	Sample Depth (m bgl)	Sample Number	Material For Testing	Natural Water Content (%)	Fine 75µm (%)
MDD498	0.5	MDD498 - 0.5m	Laboratory Description: Silty gravelly SAND, brown. Dry.	2.8	20.5
MDD498	1.5	MDD498 - 1.5m	Laboratory Description: Silty gravelly SAND, greenish grey. Moist.	12.1	28.6
MDD498	2	MDD498 - 2m	Gravelly SAND with minor silt, grey. Moist.	5.9	10.2
MDD498	3	MDD498 - 3m	laboratory Description: Gravelly SAND with some silt, grey. Moist.	8.9	18.2
MDD498	4	MDD498 - 4m	laboratory Description: Gravelly SAND with some silt, grey. Moist.	6.6	16.7
MDD498	5	MDD498 - 5m	Gravelly SAND with some silt, brown. Moist.	10.7	15.4
MDD499	0.5	MDD499 - 0.5m	Silty gravelly SAND, grey. Moist.	8.9	26.5
MDD499	1.5	MDD499 - 1.5m	Silty SAND with some gravel, grey. Moist.	20.6	30.5
MDD499	2	MDD499 - 2m	Gravelly SAND with some silt, grey. Moist.	10.1	13.3
MDD499	3	MDD499 - 3m	Gravelly SAND with some silt, grey. Moist.	8.5	19.1
MDD499	4.5	MDD499 - 4.5m	Silty gravelly SAND, brown mixed with orange. Moist.	13.6	21.6
MDD500	0.5	MDD500 - 0.5m	Sandy SILT with minor gravel, brown. Dry.	6.2	63.6
MDD500	1.5	MDD500 - 1.5m	Silty gravelly SAND, grey. Dry.	12.2	31.7
MDD500	3.5	MDD500 - 3.5m	Silty gravelly SAND, grey. Moist.	10.5	23.7
MDD500	5	MDD500 - 5m	Silty gravelly SAND, grey. Moist.	8.6	19.7
MDD511	1	MDD511 - 1m	Gravelly SAND with minor silt, brown. Moist.	9	12.4
MDD511	2.5	MDD511 - 2.5m	Gravelly SAND with some silt, greyish brown. Moist.	13.2	16.6
MDD511	3.5	MDD511 - 3.5m	Silty gravelly SAND, grey. Moist.	10.3	13.2
MDD511	5	MDD511 - 5m	Gravelly SAND with some silt, brownish grey. Moist.	9.6	18.2
MDD512	1.5	MDD512 - 1.5m	Gravelly SAND with some silt, brown. Moist.	10	14.8
MDD512	2.5	MDD512 - 2.5m	Gravelly SAND with some silt, brown. Moist.	9.5	15.1
MDD512	5	MDD512 - 5m	Gravelly SAND with some silt, light brown. Moist.	2.3	16.3
MDD512	8	MDD512 - 8m	Silty gravelly SAND, bluish grey. Moist.	13.9	30.9
MDD505	0.5	MDD505 - 0.5m	Sandy GRAVEL with minor silt, grey. Dry.	2.9	6.5
MDD505	1	MDD505 - 1m	Gravelly SAND with some silt, light brown. Dry.	3.5	15.4
MDD505	2.5	MDD505 - 2.5m	Gravelly SAND with some silt, light greyish brown. Moist.	1.3	15.3

MDD505	4	MDD505 - 4m	SAND with some silt and trace gravel, light brown. Moist.	2.6	18.5
MDD505	5	MDD505 - 5m	Silty gravelly SAND, grey. Dry.	3	20.4
MDD503	1	MDD503 - 1m	Sandy SILT with some gravel, light brown. Dry.	5.2	67.6
MDD503	4	MDD503 - 4m	Silty gravelly SAND, brown. Moist.	3.1	20
MDD503	4.5	MDD503 - 4.5m	Laboratory Description: Sandy GRAVEL with some silt, grey. Moist.	3.8	13.9
MDD503	5	MDD503 - 5m	Gravelly SAND with some silt, grey. Dry.	2	16.7
MDD510	1	MDD510 - 1m	Gravelly SAND with some sand, grey. Moist.	6.7	13.7
MDD510	2	MDD510 - 2m	Gravelly SAND with some silt, brown. Moist.	11.4	14.9
MDD510	2.5	MDD510 - 2.5m	Gravelly SAND with some silt, brown. Moist.	10.6	14.9
MDD510	3.5	MDD510 - 3.5m	Silty SAND with some gravel, brown. Moist.	11.9	27.1
MDD508	1	MDD508 - 1m	Gravelly silty SAND, grey. Moist.	7.2	29.9
MDD508	1.5	MDD508 - 1.5m	Silty gravelly SAND, brown. Moist.	7.3	21.5
MDD508	3.5	MDD508 - 3.5m	Gravelly SAND with some silt, grey. Moist.	8.6	15.2

TABLE 8.2 – UCS TEST SUMMARY

Hole ID	Location	Sample Number	Sample Depth (m)	Sample Length (mm)	Diameter (mm)	Date Sample Taken	Date Test Results Returned	Material Testing For	Date of complete	UCS (Mpa)
MDD493	Feature 1	MDD_UCS_1	4.1	164.9	82.9	5/02/2026	25/02/2026	Moderately Weathered TZ3	11/02/2026	14.9
MDD493	Feature 1	MDD_UCS_2	7.4	140.6	82.2	5/02/2026	25/02/2026	Moderately Weathered TZ3	11/02/2026	4.2
MDD493	Feature 1	MDD_UCS_3	29.8	161.5	83	5/02/2026	25/02/2026	Unweathered TZ3	11/02/2026	6.5

TABLE 8.3 – TRIAXIAL TEST SUMMARY

Hole ID	Location	Sample Depth (m)	Sample Length (mm)	Diameter (mm)	Date Test Results Returned	Testing Type	Material For Testing	Angle of Frictional Resistance (°)	Cohesion (kPa)	Linear Regression Coefficient
MDD491	Feature 1	22.8-22.95	153.59	81.03	25/03/2026	CU	Slightly weathered TZ3	23	10	1
MDD493	Feature 1	28.87-29.03	164.77	83.44	25/03/2026	CU	Highly weathered TZ3	33	20	1

TABLE 8.4 – COMPACTION TEST SUMMARY

Site Location / Sample ID	Location	Sample Number	Sample Size	Testing Type	Material For Testing	Optimum Water Content (%)	Maximum Dry Density (t/m3)
RAS-HW-116	RAS	-	60 kg (3 bags)	Heavy Compaction	Gravel & Sand with some silt & trace of clay	7	2.22
RAS-HW-126	RAS	-	60 kg (3 bags)	Heavy Compaction	Sandy Gravel with minor silt & trace of clay	5	2.29
RAS-COL-121	RAS	-	60 kg (3 bags)	Heavy Compaction	Silty Gravel & Sand with trace of clay	7	2.16
RAS-SZ-129	RAS	-	60 kg (3 bags)	Heavy Compaction	Gravel, Sand & Silt with minor Clay	5	2.22
TSF Farm Batter -85	TSF	-	60 kg (3 bags)	Heavy Compaction	Silty Gravel & Sand with minor clay	7	2.22
TSF Farm MDD399	TSF	-	60 kg (3 bags)	Heavy Compaction	Sandy Gravel with some silt & trace of clay	5.5	2.32
Cherri Terrance	Cherri Terrance	MG 41761	80 kg	Standard Compaction	Sandy Gravel with minor silt & minor clay	7.5	2.01
Cherri Terrance	Cherri Terrance	MG 41761	80 kg	Heavy Compaction	Sandy Gravel with minor silt & minor clay	8	2.15
Loess	-	MG 41754	80 kg	Standard Compaction	Silt with some sand, trace of clay & trace of gravel	13	1.82
Loess	-	MG 41754	80 kg	Heavy Compaction	Silt with some sand, trace of clay & trace of gravel	11	1.92
Weathered brown schist x2	-	MG 41755	150 kg	Standard Compaction	Gravel with some cobbles, minor sand & trace of silt	8	2.16
Weathered brown schist x2	-	MG 41755	150 kg	Heavy Compaction	Gravel with some cobbles, minor sand & trace of silt	6.5	2.27

Alluvium/colluvium	-	MG 41765	150kg	Standard Compaction	Silty Sandy Gravel with trace of clay	10	1.89
Alluvium/colluvium	-	MG 41765	150kg	Heavy Compaction	Silty Sandy Gravel with trace of clay	9.5	2.05

TABLE 8.5 – PSD SUMMARY

Site Location / Sample ID	Location	Sample Number	Coarse Gravel (%) (60mm to 20mm)	Medium Gravel (%) (20mm to 6mm)	Fine Gravel (%) (6mm to 2mm)	Coarse Sand (%) (2mm to 600µm)	Medium Sand (%) (600µm to 200µm)	Fine Sand (%) (200µm to 60µm)	Coarse Silt (%) (60µm to 20µm)	Medium Silt (%) (20µm to 6µm)	Fine Silt (%) (6µm to 2µm)	Clay (%) (< 2µm)
RAS-HW-116	RAS	-	-	12	25	21	10	10	6	7	4	2
RAS-HW-126	RAS	-	11	34	21	13	6	6	3	4	1	1
RAS-COL-121	RAS	-	-	12	19	14	6	19	14	9	4	3
RAS-SZ-129	RAS	-	-	8	14	17	12	11	11	13	8	6
TSF Farm Batter - 85	TSF	-	-	13	24	17	7	9	9	10	5	6
TSF Farm MDD399	TSF	-	10	33	19	12	6	6	5	5	3	1
Cherri Terrance	-	MG41761	13	18	12	16	14	11	3	4	1	8
Loss	-	MG 41754	-	-	1	1	1	18	56	15	5	3
Topsoil x3	-	MG 41757	1	9	8	10	7	14	20	12	7	12
Alluvium/colluvium	-	MG 41765	4	13	20	14	8	13	11	8	5	4

TABLE 8.6 – PSD SUMMARY

Site Location / Sample ID	150 mm	106 mm	75 mm	63 mm	53 mm	36.7 mm	26.5 mm	19 mm	13.2 mm	9.5 mm	4.75 mm	2.36 mm	2m m	1.18 mm	0.6 mm	0.3 mm	0.212 mm	0.15 mm	0.075 mm	0.063 mm
TZ4 PQ Material							-	100	63	36	17	10	9	6	4	3	2	2	1	1
Weathered brown schist x2	100	98	93	88	79	65	56	48	41	34	22	15	14	11	8	7	6	6	5	4

TABLE 8.7 – PLASTICITY INDEX SUMMARY

Site Location / Sample ID	Sample Number	Core Size (Sample Size)	Sample tested by	Material For Testing	Date of complete	Liquid Limit	Plastic Limit	Plasticity Index
Cherri Terrance	MG41761	150 kg	CTS	Sandy Gravel with minor silt & minor clay	4/10/2024	30	18	12
Weathered brown schist x2	MG 41755	150 kg	CTS	Gravel with some cobbles, minor sand & trace of silt	4/10/2024	31	27	4
Alluvium/colluvium	MG 41765	150 kg	CTS	Silty Sandy Gravel with trace of clay	4/10/2024	43	34	9

TABLE 8.8 – CRUSHING RESISTANCESUMMARY

Site Location / Sample ID	Sample Number	Core Size (Sample Size)	Date Sample Taken	Date Test Results Returned	Sample Collected by	Sample tested by	Material For Testing	Crushing Resistance
TZ4 PQ Material		150kg	-	4/10/2024	-	L.T. Smith	Gravel with minor sand & trace of silt	200 kN
Cherri Terrace cobble/boulders	MG 41762	150kg	-	4/10/2024	-	L.T. Smith	Scalp cobbles / boulders from sample greater than 600mm diameter	110 kN
Bendigo Borrow – Terrace Gravel	MG 41764	150kg	-	4/10/2024	-	L.T. Smith	Scalp cobbles / boulders from sample greater than 600mm diameter	170 kN

TABLE 8.9 – POINT LOAD TEST SUMMARY

Hole ID	Interval Depth (m)	Sample Depth From	Sample Depth To	Sample Point Depth	Thickness (mm)	Load Failure (Mpa)	Foliation Alpha	Test Type	Comments
MDD491	5-10	7	7.15	7.075	150	4.65	57	Diametrial	PQ
MDD491	10-15	12.8	12.94	12.87	140	0.14	27	Diametrial	PQ
MDD491	15-20	17.98	18.1	18.04	120	0.03	30	Diametrial	PQ
MDD491	20-25	23.5	23.61	23.555	110	0.58	48	Diametrial	PQ
MDD491	25-30	27.66	27.75	27.705	90	0.09	45	Diametrial	PQ
MDD491	30-35	32.4	32.49	32.445	90	0.1	48	Diametrial	PQ
MDD491	35-40	39.25	39.36	39.305	110	0.77	73	Diametrial	PQ
MDD491	40-45	40.31	40.40	40.355	90	0.5	68	Diametrial	PQ
MDD491	45-50	47.15	47.25	47.2	100	0.5	48	Diametrial	PQ
MDD491	50-55	53.2	53.3	53.25	100	0.57	62	Diametrial	PQ
MDD491	55-60	57.0	57.11	57.055	110	0.57	68	Diametrial	PQ
MDD491	60-65	60.47	60.55	60.51	80	1.28	75	Diametrial	HQ
MDD491	65-70	68.47	68.56	68.515	90	0.05	68	Diametrial	HQ
MDD491	70-75	72.1	72.18	72.14	80	0.05	62	Diametrial	HQ
MDD491	75-80	75.36	75.45	75.405	90	0.75	68	Diametrial	HQ
MDD491	80-85	81.6	81.72	81.66	120	0.6	73	Diametrial	Fold hinge, HQ
MDD491	85-90	85.64	85.72	85.68	80	0.37	55	Diametrial	HQ
MDD491	90-95	94.09	94.2	94.145	110	0.2	44	Diametrial	HQ
MDD491	95-100	95.44	95.55	95.495	110	0.07	49	Diametrial	HQ
MDD493	0-5	3.5	3.67	3.585	170	4.38	50	Diametrial	PQ
MDD493	5-10	7.15	7.31	7.23	160	4.61	50	Diametrial	PQ
MDD493	10-15	13.06	13.20	13.13	140	3.64	78	Diametrial	PQ
MDD493	15-20	16.97	17.12	17.045	150	3.27	69	Diametrial	PQ

Hole ID	Interval Depth (m)	Sample Depth From	Sample Depth To	Sample Point Depth	Thickness (mm)	Load Failure (Mpa)	Foliation Alpha	Test Type	Comments
MDD493	20-25	20.55	20.69	20.62	140	6.22	83	Diametrial	PQ
MDD493	25-30	26	26.11	26.055	110	0.2	71	Diametrial	PQ
MDD493	30-35	34.44	34.59	34.515	150	1.4	75	Diametrial	PQ
MDD493	35-40	35.55	35.69	35.62	140	2.07	78	Diametrial	PQ
MDD493	40-45	44.9	45	44.95	100	0.1	68	Diametrial	PQ
MDD493	45-50	48.76	48.86	48.81	100	0.1	60	Diametrial	PQ
MDD493	50-55	51.83	52	51.915	170	0.2	67	Diametrial	PQ
MDD493	55-60	57.69	57.82	57.755	130	22.73	80	Diametrial	PQ, Fail
MDD493	60-65	61.39	61.48	61.435	90	0.36	80	Diametrial	HQ
MDD493	65-70	66.24	66.31	66.275	70	0.15	84	Diametrial	HQ
MDD493	70-75	72.15	72.28	72.215	130	2.42	75	Diametrial	HQ
MDD493	75-80	78.11	78.2	78.155	90	0.1	80	Diametrial	HQ
MDD493	80-85	82.4	82.5	82.45	100	0.59	77	Diametrial	HQ
MDD493	85-90	88.68	88.8	88.74	120	1.34	37	Diametrial	HQ
MDD493	90-95	91.8	91.89	91.845	90	11.59	66	Diametrial	HQ
MDD493	95-100	99.51	99.63	99.57	120	0.73	54	Diametrial	HQ