

PUHINUI STREAM
Flood Level Profile
1% AEP - Ultimate Development

Mike 11	20000		Water Level			Flow	
Chainage	Moss	1992	Minimum	Maximum	Discharge	Minimum	Maximum
6922	13078		57.118	58.176	PUHINUI 6933.50	0.001	2.787
6945	13055		57.111	58.013	PUHINUI 6972.50	0.001	2.787
7000	13000		57.101	57.558	PUHINUI 7017.50	0.001	2.786
7035	12965		55.201	55.741	PUHINUI 7066.00	0.001	2.786
7097	12903		53.601	54.323	PUHINUI 7126.50	0.001	2.785
7156	12844		52.801	53.217	PUHINUI 7172.00	0.001	2.785
7188	12812		51.701	52.12	PUHINUI 7212.00	0.001	2.785
7236	12764		49.602	50.296	PUHINUI 7260.50	0.002	5.348
7285	12715		49.001	49.428	PUHINUI 7293.00	0.002	5.349
7301	12699		47.101	47.772	PUHINUI 7318.50	0.002	5.35
7336	12664		45.702	46.346	PUHINUI 7342.00	0.002	5.35
7348	12652		45.203	46.196	PUHINUI 7368.00	0.002	5.349
7388	12612		44.902	45.976	PUHINUI 7416.50	0.003	10.29
7445	12555		43.402	44.759	PUHINUI 7481.50	0.003	10.286
7518	12482		42.602	43.561	PUHINUI 7540.50	0.003	10.28
7563	12437		41.504	42.9	PUHINUI 7576.00	0.003	10.241
7589	12411		41.203	42.882	PUHINUI 7618.00	0.003	10.067
7647	12353		40.803	42.851	PUHINUI 7663.00	0.003	9.883
7679	12321		40.513	42.833	PUHINUI 7693.00	0.004	12.42
7707	12293		40.503	42.809	PUHINUI 7722.00	0.004	12.246
7737	12263		40.503	42.772	PUHINUI 7748.00	0.004	12.056
7759	12241		39.504	42.763	PUHINUI 7773.00	0.004	11.658
7787	12213		39.246	42.761	PUHINUI 7792.50	0.004	11.513
7798	12202		39.245	42.76	PUHINUI 7802.50	0.004	11.513
7807	12193		39.235	42.759	PUHINUI 7812.00	0.004	11.513
7827	12173		38.809	40.7	PUHINUI 7856.50	0.004	11.51
7886	12114		38.706	40.524	PUHINUI 7902.00	0.004	11.506
7918	12082		38.504	40.388	PUHINUI 7928.50	0.004	11.503
7939	12061		38.117	40.357	PUHINUI 7953.00	0.005	11.498
7967	12033		38.109	40.286	PUHINUI 7996.00	0.005	11.491
8025	11975		37.916	40.21	PUHINUI 8032.00	0.016	25.598
8039	11961		37.803	40.159	PUHINUI 8417.50	0.019	26.405
8796	11204	78	34.502	35.939	PUHINUI 8874.00	0.019	29.667
8952	11048	77	31.405	33.716	PUHINUI 9042.00	0.019	29.628
9132	10868	76	30.304	33.245	PUHINUI 9170.00	0.019	29.594
9208	10792	75	29.496	33.181	PUHINUI 9298.00	0.021	38.301
9312	10688	74	29.202	31.775	PUHINUI 9351.00	0.022	46.902
9390	10610		28.841	31.374	PUHINUI 9406.50	0.022	46.949
9423	10577		28.621	31.232	PUHINUI 9436.50	0.022	46.969
9450	10550	73	28.495	31.086	PUHINUI 9484.50	0.022	46.992
9519	10481	72	28.007	30.723	PUHINUI 9563.50	0.022	47.021
9608	10392	71	27.678	30.13	PUHINUI 9655.50	0.022	47.044
9703	10297	70	27.413	29.676	PUHINUI 9796.00	0.022	47.063
9889	10111	69	26.484	29.069	PUHINUI 9935.50	0.023	47.051
9982	10018	68	26.465	28.502	PUHINUI 10013.50	0.023	47.036
10045	9955	67	26.094	28.128	PUHINUI 10085.00	0.023	46.937
10125	9875	66	25.685	27.924	PUHINUI 10174.50	0.024	59.454
10224	9776	65	25.164	27.733	PUHINUI 10265.50	0.024	58.642
10307	9693	64	25.112	27.672	PUHINUI 10314.50	0.024	58.508
10322	9678		25.109	27.21	PUHINUI 10347.50	0.024	58.534
10373	9627	63	24.345	26.959	PUHINUI 10399.00	0.024	58.539
10425	9575	62	23.661	26.732	PUHINUI 10514.00	0.024	58.488
10603	9397	61	22.914	26.257	PUHINUI 10636.50	0.024	58.235
10670	9330	60	22.907	26.037	PUHINUI 10690.25	0.024	58.048
10710.5	9289.5		22.907	25.933	PUHINUI 10790.25	0.024	64.661
10870	9130	58	22.907	25.757	PUHINUI 10877.50	0.024	64.843
10885	9115		22.7	24.387	PUHINUI 10900.00	0.024	64.853

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Chainage	Moss	1992	Water Level			Discharge	Flow	
Chainage	Chainage	Section No	Minimum	Maximum			Minimum	Maximum
10915	9085	57	22.7	24.274		PUHINUI 10971.50	0.024	67.034
11028	8972	56	22.244	23.962		PUHINUI 11097.00	0.024	67.076
11166	8834	55	21.788	23.631		PUHINUI 11207.00	0.024	67.116
11248	8752	54	21.568	23.37		PUHINUI 11326.50	0.024	67.946
11405	8595	53	21.146	22.72		PUHINUI 11454.00	0.025	70.065
11503	8497	52	20.863	21.935		PUHINUI 11514.00	0.163	76.428
11525	8475		19.871	21.716		PUHINUI 11527.50	0.163	76.345
11530	8470		19.67	21.714		PUHINUI 11533.75	0.163	76.305
11537.5	8462.5		19.329	21.714		PUHINUI 11539.75	0.163	76.262
11542	8458		19.201	21.714		PUHINUI 11546.00	0.163	76.216
11550	8450		19.201	21.714		PUHINUI 11592.50	0.163	75.834
11635	8365		19.201	21.704		PUHINUI 11640.00	0.162	75.438
11645	8355	51	19.201	21.69		PUHINUI 11696.00	0.181	86.485
11747	8253	50	18.006	21.593		PUHINUI 11808.50	0.181	85.76
11870	8130	49	17.552	21.553		PUHINUI 11935.00	0.184	87.475
12000	8000	48	17.41	21.534		PUHINUI 12005.00	0.184	87.724
12010	7990		17.41	21.528		PUHINUI 12032.50	0.184	87.682
12055	7945		17.11	20.726		PUHINUI 12067.50	0.184	87.628
12080	7920		16.621	20.713		PUHINUI 12095.00	0.184	87.599
12110	7890		16.612	20.7		PUHINUI 12142.50	0.184	87.533
12175	7825		15.841	19.949		PUHINUI 12189.00	0.184	87.464
12203	7797	46	15.674	19.843		PUHINUI 12246.50	0.184	87.68
12290	7710	45	15.47	19.691		PUHINUI 12404.00	0.184	92.048
12518	7482	44	15.414	19.347		PUHINUI 12613.00	0.184	92.352
12708	7292	43	15.297	19.094		PUHINUI 12794.00	0.184	92.49
12880	7120	42	15.043	18.943		PUHINUI 12966.50	0.185	96.162
13053	6947	41	15.005	18.773		PUHINUI 13057.50	0.185	98.182
13062	6938		14.998	18.764		PUHINUI 13067.50	0.185	98.201
13073	6927		14.741	17.663		PUHINUI 13113.00	0.185	98.344
13153	6847	40	13.64	17.532		PUHINUI 13225.00	0.185	98.836
13297	6703	39	13.193	17.453		PUHINUI 13368.50	0.186	104.822
13440	6560	38	12.78	17.352		PUHINUI 13517.50	0.185	105.848
13595	6405	37	12.431	17.238		PUHINUI 13605.00	0.188	114.637
13615	6385		12.409	17.227		PUHINUI 13622.50	0.188	114.638
13630	6370	36	12.405	17.218		PUHINUI 13640.00	0.188	114.639
13650	6350		12.396	17.205		PUHINUI 13657.50	0.188	114.639
13665	6335		12.298	16.979		PUHINUI 13714.00	0.188	114.655
13763	6237	35	11.933	16.857		PUHINUI 13855.50	0.188	117.677
13948	6052	34	11.608	16.646		PUHINUI 14027.50	0.188	122.734
14107	5893	33	11.42	16.457		PUHINUI 14179.50	0.188	122.933
14252	5748	32	11.104	16.29		PUHINUI 14296.00	0.192	145.316
14340	5660	31	11.012	16.208		PUHINUI 14350.00	0.192	145.383
14360	5640		11.009	16.21		PUHINUI 14392.00	0.192	145.436
14424	5576	0	10.947	15.639		PUHINUI 14428.00	0.192	145.437
14432	5568	30	10.946	15.592		PUHINUI 14479.50	0.192	145.435
14527	5473	29	10.852	15.445		PUHINUI 14612.00	0.192	148.584
14697	5303	28	10.651	15.12		PUHINUI 14782.50	0.192	148.457
14868	5132		10.581	14.84		PUHINUI 14969.00	0.193	148.254
15070	4930	26	10.498	14.558		PUHINUI 15170.00	0.193	147.983
15270	4730	25	10.467	14.291		PUHINUI 15369.00	0.193	150.252
15468	4532	24	10.268	13.876		PUHINUI 15477.50	0.194	149.979
15487	4513		10.133	13.812		PUHINUI 15492.50	0.259	149.929
15498	4502		10.096	13.736		PUHINUI 15514.00	0.174	149.854
15530	4470		9.637	13.653		PUHINUI 15580.00	0.194	149.698
15630	4370		9.475	13.433		PUHINUI 15680.00	0.194	149.456
15730	4270		9.317	13.198		PUHINUI 15780.00	0.195	149.93
15830	4170		9.175	12.942		PUHINUI 15885.00	0.195	149.965

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Chainage	Chainage	1992	Water Level				Flow	
		Section No	Minimum	Maximum		Discharge	Minimum	Maximum
16025	3975	21	9.07	12.624		PUHINUI 15976.00	0.195	150.031
16097	3903		8.979	12.453		PUHINUI 16088.50	0.206	163.391
16250	3750		8.659	12.156		PUHINUI 16280.00	0.206	163.807
16480	3520		8.363	11.788		PUHINUI 16588.00	0.206	164.067
16866	3134	17	7.122	10.841		PUHINUI 16878.00	0.207	163.813
17060	2940	16	6.308	10.142		PUHINUI 17087.00	0.207	163.379
17284	2716	15	5.737	9.073		PUHINUI 17339.00	0.207	163.931
17564	2436	14	5.31	8.554		PUHINUI 17580.00	0.208	163.875
17766	2234	13	4.537	8.302		PUHINUI 17745.00	0.208	163.986
17894	2106	12	3.862	7.838		PUHINUI 17934.50	0.208	164.06
18145	1855		3.015	6.708		PUHINUI 18127.50	0.208	164.046
18280	1720	10	2.855	6.245		PUHINUI 18326.50	0.21	167.064
18543	1457	8	2.524	5.23		PUHINUI 18633.50	0.21	164.58
18894	1106	7	2.524	4.741		PUHINUI 18890.50	0.211	162.692
19057	943	6	2.524	4.638		PUHINUI 19060.00	0.212	161.72
19264	736	5	0.503	4.166		PUHINUI 19318.00	0.213	162.113
19542	458	4	0.501	3.808		PUHINUI 19551.00	0.214	162.371
19730	270	3	0.501	3.599		PUHINUI 19760.00	0.214	162.126
19960	40		0.501	3.108		PUHINUI 20071.50	0.214	161.925
20353	-353	1	0.5	0.5		PUHINUI 19845.00	0.213	125.6
						PUHINUI 20156.50	0.213	125.4

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Mike 11 Chainage	Moss Chainage	1992 Section No	Water Level		Discharge	Flow	
			Minimum	Maximum		Minimum	Maximum
6922	13078		57.117	58.182	PUHINUI 6933.50	0.001	2.827
6945	13055		57.111	58.018	PUHINUI 6972.50	0.001	2.826
7000	13000		57.101	57.562	PUHINUI 7017.50	0.001	2.826
7035	12965		55.201	55.745	PUHINUI 7066.00	0.001	2.825
7097	12903		53.601	54.328	PUHINUI 7126.50	0.001	2.825
7156	12844		52.801	53.22	PUHINUI 7172.00	0.001	2.825
7188	12812		51.701	52.124	PUHINUI 7212.00	0.001	2.824
7236	12764		49.601	50.291	PUHINUI 7260.50	0.002	5.258
7285	12715		49.001	49.425	PUHINUI 7293.00	0.002	5.26
7301	12699		47.101	47.775	PUHINUI 7318.50	0.002	5.262
7336	12664		45.702	46.326	PUHINUI 7342.00	0.002	5.26
7348	12652		45.203	46.154	PUHINUI 7368.00	0.002	5.248
7388	12612		44.901	45.922	PUHINUI 7416.50	0.002	9.453
7445	12555		43.402	44.709	PUHINUI 7481.50	0.002	9.452
7518	12482		42.602	43.522	PUHINUI 7540.50	0.002	9.45
7563	12437		41.503	42.79	PUHINUI 7576.00	0.002	9.422
7589	12411		41.202	42.761	PUHINUI 7618.00	0.002	9.297
7647	12353		40.803	42.719	PUHINUI 7663.00	0.002	9.166
7679	12321		40.512	42.693	PUHINUI 7693.00	0.003	11.778
7707	12293		40.503	42.661	PUHINUI 7722.00	0.003	11.658
7737	12263		40.503	42.607	PUHINUI 7748.00	0.003	11.531
7759	12241		39.504	42.593	PUHINUI 7773.00	0.003	11.219
7787	12213		39.244	42.59	PUHINUI 7792.50	0.003	11.131
7798	12202		39.243	42.589	PUHINUI 7802.50	0.003	11.086
7807	12193		39.231	42.588	PUHINUI 7812.00	0.003	11.046
7827	12173		38.808	40.635	PUHINUI 7856.50	0.003	11.046
7886	12114		38.705	40.445	PUHINUI 7902.00	0.003	11.052
7918	12082		38.504	40.289	PUHINUI 7928.50	0.003	11.054
7939	12061		38.113	40.252	PUHINUI 7953.00	0.003	11.056
7967	12033		38.107	40.169	PUHINUI 7996.00	0.003	11.059
8025	11975		37.914	40.081	PUHINUI 8032.00	0.013	21.712
8039	11961		37.802	40.033	PUHINUI 8417.50	0.014	22.616
8796	11204	78	34.502	35.825	PUHINUI 8874.00	0.014	25.27
8952	11048	77	31.404	33.592	PUHINUI 9042.00	0.015	25.214
9132	10868	76	30.303	33.184	PUHINUI 9170.00	0.014	25.232
9208	10792	75	29.489	33.133	PUHINUI 9298.00	0.016	34.404
9312	10688	74	29.19	31.604	PUHINUI 9351.00	0.017	40.193
9390	10610		28.776	31.205	PUHINUI 9406.50	0.017	40.262
9423	10577		28.616	31.067	PUHINUI 9436.50	0.017	40.292
9450	10550	73	28.494	30.929	PUHINUI 9484.50	0.017	40.328
9519	10481	72	28.005	30.582	PUHINUI 9563.50	0.017	40.375
9608	10392	71	27.675	30.006	PUHINUI 9655.50	0.017	40.419
9703	10297	70	27.413	29.545	PUHINUI 9796.00	0.017	40.521
9889	10111	69	26.474	28.949	PUHINUI 9935.50	0.017	40.552
9982	10018	68	26.46	28.415	PUHINUI 10013.50	0.017	40.554
10045	9955	67	26.092	28.07	PUHINUI 10085.00	0.017	40.501
10125	9875	66	25.684	27.893	PUHINUI 10174.50	0.018	50.425
10224	9776	65	25.31	27.742	PUHINUI 10265.50	0.018	49.936
10307	9693	64	25.309	27.699	PUHINUI 10314.50	0.018	49.502
10322	9678		24.517	27.063	PUHINUI 10347.50	0.018	49.415
10373	9627	63	24.344	26.804	PUHINUI 10399.00	0.018	49.351
10425	9575	62	23.66	26.563	PUHINUI 10514.00	0.018	49.481
10603	9397	61	22.91	26.06	PUHINUI 10636.50	0.018	49.446
10670	9330	60	22.906	25.788	PUHINUI 10690.00	0.018	49.381
10710	9290	59	22.906	25.671	PUHINUI 10790.00	0.018	53.257
10870	9130	58	22.906	25.491	PUHINUI 10877.50	0.018	53.015
10885	9115		22.7	24.251	PUHINUI 10900.00	0.018	53.002
10915	9085	57	22.7	24.135	PUHINUI 10971.50	0.018	54.05

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Chainage	Chainage	Section No	Minimum	Maximum		Minimum	Maximum
11028	8972	56	22.244	23.819	PUHINUI 11097.00	0.018	53.974
11166	8834	55	21.788	23.483	PUHINUI 11207.00	0.018	53.894
11248	8752	54	21.568	23.228	PUHINUI 11326.50	0.019	54.76
11405	8595	53	21.146	22.594	PUHINUI 11454.00	0.019	56.524
11503	8497	52	20.863	21.756	PUHINUI 11514.00	0.185	60.28
11525	8475		19.881	20.916	PUHINUI 11527.50	0.185	60.238
11530	8470		19.682	20.874	PUHINUI 11533.75	0.182	60.209
11537.5	8462.5		19.253	20.865	PUHINUI 11539.75	0.185	60.177
11542	8458		19.202	20.865	PUHINUI 11546.00	0.185	60.141
11550	8450		19.202	20.865	PUHINUI 11592.50	0.185	59.936
11635	8365		19.202	20.844	PUHINUI 11640.00	0.185	59.882
11645	8355	51	19.202	20.811	PUHINUI 11696.00	0.188	63.856
11747	8253	50	18.011	20.5	PUHINUI 11808.50	0.188	63.66
11870	8130	49	17.568	20.368	PUHINUI 11935.00	0.191	64.205
12000	8000	48	17.237	20.323	PUHINUI 12005.00	0.191	64.289
12010	7990		17.226	20.309	PUHINUI 12032.50	0.191	64.216
12055	7945		17.113	19.999	PUHINUI 12067.50	0.191	64.139
12080	7920		16.625	19.984	PUHINUI 12095.00	0.191	64.087
12110	7890		16.613	19.967	PUHINUI 12142.50	0.191	63.971
12175	7825		15.853	19.425	PUHINUI 12189.00	0.191	63.9
12203	7797	46	15.687	19.341	PUHINUI 12246.50	0.191	64.194
12290	7710	45	15.474	19.19	PUHINUI 12404.00	0.191	68.454
12518	7482	44	15.417	18.873	PUHINUI 12613.00	0.191	68.888
12708	7292	43	15.299	18.654	PUHINUI 12794.00	0.191	69.154
12880	7120	42	15.046	18.515	PUHINUI 12966.50	0.191	72.721
13053	6947	41	15.008	18.354	PUHINUI 13057.50	0.191	76.124
13062	6938		15.001	18.345	PUHINUI 13067.50	0.191	76.112
13073	6927		14.742	17.098	PUHINUI 13113.00	0.191	76.064
13153	6847	40	13.641	16.935	PUHINUI 13225.00	0.191	75.834
13297	6703	39	13.196	16.839	PUHINUI 13368.50	0.192	80.287
13440	6560	38	12.783	16.722	PUHINUI 13517.50	0.192	80.474
13595	6405	37	12.441	16.592	PUHINUI 13605.00	0.193	90.222
13615	6385		12.418	16.577	PUHINUI 13622.50	0.193	90.168
13630	6370	36	12.412	16.567	PUHINUI 13640.00	0.193	90.105
13650	6350		12.404	16.551	PUHINUI 13657.50	0.193	90.043
13665	6335		12.302	16.443	PUHINUI 13714.00	0.193	90.143
13763	6237	35	11.936	16.315	PUHINUI 13855.50	0.193	93.166
13948	6052	34	11.611	16.071	PUHINUI 14027.50	0.193	96.783
14107	5893	33	11.422	15.864	PUHINUI 14179.50	0.193	97.009
14252	5748	32	11.108	15.688	PUHINUI 14296.00	0.198	115.806
14340	5660	31	11.016	15.601	PUHINUI 14350.00	0.198	115.631
14360	5640		11.01	15.561	PUHINUI 14392.00	0.198	115.492
14424	5576		10.951	15.235	PUHINUI 14428.00	0.198	115.404
14432	5568	30	10.95	15.197	PUHINUI 14479.50	0.198	115.313
14527	5473	29	10.856	15.052	PUHINUI 14612.00	0.198	117.132
14697	5303	28	10.655	14.749	PUHINUI 14782.50	0.198	117.114
14868	5132		10.584	14.505	PUHINUI 14969.00	0.198	117.011
15070	4930	26	10.5	14.267	PUHINUI 15170.00	0.195	116.832
15270	4730	25	10.468	14.039	PUHINUI 15369.00	0.199	118.423
15468	4532	24	10.317	13.702	PUHINUI 15477.50	0.199	118.193
15487	4513		10.278	13.655	PUHINUI 15492.50	0.199	118.152
15498	4502		10.26	13.608	PUHINUI 15514.00	0.199	118.089
15530	4470		10.104	13.586	PUHINUI 15595.00	0.199	117.773
15660	4340	23	9.619	13.46	PUHINUI 15725.00	0.199	117.041
15790	4210		9.388	13.26	PUHINUI 15790.50	0.201	126.909
15791	4209	22	9.379	13.256	PUHINUI 15803.50	0.201	126.931
15816	4184		9.337	13.159	PUHINUI 15838.00	0.201	126.977
15860	4140		9.279	13.044	PUHINUI 15942.50	0.201	127.098

PUHINUI STREAM
Flood Level Profile
1% AEP - Existing (2000) Development

Mike 11	Moss	1992	Water Level			Flow		
Chainage	Chainage	Section No	Minimum	Maximum		Discharge	Minimum	Maximum
16025	3975	21	9.131	12.442		PUHINUI 16061.00	0.201	127.089
16097	3903		8.977	12.167		PUHINUI 16173.50	0.201	126.954
16250	3750		8.657	11.89		PUHINUI 16365.00	0.201	126.847
16480	3520		8.361	11.523		PUHINUI 16673.00	0.201	126.672
16866	3134	17	7.119	10.516		PUHINUI 16963.00	0.201	126.592
17060	2940	16	6.306	9.773		PUHINUI 17172.00	0.202	125.755
17284	2716	15	5.735	8.693		PUHINUI 17424.00	0.203	126.18
17564	2436	14	5.309	8.162		PUHINUI 17665.00	0.203	126.381
17766	2234	13	4.536	7.907		PUHINUI 17830.00	0.203	126.371
17894	2106	12	3.861	7.452		PUHINUI 18019.50	0.203	126.327
18145	1855		3.013	6.356		PUHINUI 18212.50	0.204	126.251
18280	1720	10	2.849	5.936		PUHINUI 18411.50	0.209	127.945
18543	1457	8	2.524	4.848		PUHINUI 18718.50	0.209	126.885
18894	1106	7	2.524	4.209		PUHINUI 18975.50	0.209	125.84
19057	943	6	2.524	4.051		PUHINUI 19060.00	0.211	125.799
19264	736	5	0.503	3.795		PUHINUI 19403.00	0.212	125.541
19542	458	4	0.501	3.455		PUHINUI 19636.00	0.213	125.823
19730	270	3	0.501	3.256		PUHINUI 19845.00	0.213	125.6
19960	40		0.501	2.812		PUHINUI 20156.50	0.213	125.4
20353	-353	1	0.5	0.5				

PUHINUI STREAM

Flood Level Profile

2% AEP - Ultimate Development

Mike 11	20000							
Chainage	Moss	1992	Water Level			Discharge	Flow	
Chainage	Chainage	Section No	Minimum	Maximum			Minimum	Maximum
6922	13078		57.118	58.137		PUHINUI 6933.50	0.001	2.545
6945	13055		57.111	57.979		PUHINUI 6972.50	0.001	2.545
7000	13000		57.101	57.536		PUHINUI 7017.50	0.001	2.544
7035	12965		55.201	55.718		PUHINUI 7066.00	0.001	2.544
7097	12903		53.601	54.292		PUHINUI 7126.50	0.001	2.543
7156	12844		52.801	53.196		PUHINUI 7172.00	0.001	2.543
7188	12812		51.701	52.098		PUHINUI 7212.00	0.001	2.543
7236	12764		49.602	50.261		PUHINUI 7260.50	0.002	4.797
7285	12715		49.001	49.405		PUHINUI 7293.00	0.002	4.799
7301	12699		47.101	47.742		PUHINUI 7318.50	0.002	4.801
7336	12664		45.702	46.301		PUHINUI 7342.00	0.002	4.801
7348	12652		45.203	46.129		PUHINUI 7368.00	0.002	4.795
7388	12612		44.902	45.905		PUHINUI 7416.50	0.003	9.18
7445	12555		43.402	44.691		PUHINUI 7481.50	0.003	9.159
7518	12482		42.602	43.509		PUHINUI 7540.50	0.003	9.136
7563	12437		41.504	42.667		PUHINUI 7576.00	0.003	9.107
7589	12411		41.203	42.629		PUHINUI 7618.00	0.003	8.984
7647	12353		40.803	42.58		PUHINUI 7663.00	0.003	8.889
7679	12321		40.513	42.547		PUHINUI 7693.00	0.004	11.243
7707	12293		40.503	42.506		PUHINUI 7722.00	0.004	11.14
7737	12263		40.503	42.437		PUHINUI 7748.00	0.004	11.058
7759	12241		39.504	42.415		PUHINUI 7773.00	0.004	10.813
7787	12213		39.246	42.411		PUHINUI 7792.50	0.004	10.661
7798	12202		39.245	42.41		PUHINUI 7802.50	0.004	10.671
7807	12193		39.235	42.408		PUHINUI 7812.00	0.004	10.682
7827	12173		38.809	40.631		PUHINUI 7856.50	0.004	10.68
7886	12114		38.706	40.455		PUHINUI 7902.00	0.004	10.677
7918	12082		38.504	40.316		PUHINUI 7928.50	0.004	10.674
7939	12061		38.117	40.284		PUHINUI 7953.00	0.005	10.67
7967	12033		38.109	40.213		PUHINUI 7996.00	0.005	10.663
8025	11975		37.916	40.135		PUHINUI 8032.00	0.016	23.434
8039	11961		37.803	40.085		PUHINUI 8417.50	0.019	24.123
8796	11204	78	34.502	35.874		PUHINUI 8874.00	0.019	27.096
8952	11048	77	31.405	33.635		PUHINUI 9042.00	0.019	27.017
9132	10868	76	30.304	33.175		PUHINUI 9170.00	0.019	26.864
9208	10792	75	29.496	33.115		PUHINUI 9298.00	0.021	35.594
9312	10688	74	29.202	31.687		PUHINUI 9351.00	0.022	43.376
9390	10610		28.841	31.286		PUHINUI 9406.50	0.022	43.381
9423	10577		28.621	31.146		PUHINUI 9436.50	0.022	43.383
9450	10550	73	28.495	31.003		PUHINUI 9484.50	0.022	43.385
9519	10481	72	28.007	30.647		PUHINUI 9563.50	0.022	43.385
9608	10392	71	27.678	30.063		PUHINUI 9655.50	0.022	43.379
9703	10297	70	27.413	29.602		PUHINUI 9796.00	0.022	43.318
9889	10111	69	26.484	28.998		PUHINUI 9935.50	0.023	43.266
9982	10018	68	26.465	28.444		PUHINUI 10013.50	0.023	43.24
10045	9955	67	26.094	28.061		PUHINUI 10085.00	0.023	43.139
10125	9875	66	25.685	27.83		PUHINUI 10174.50	0.024	54.5
10224	9776	65	25.164	27.602		PUHINUI 10265.50	0.024	53.686
10307	9693	64	25.112	27.526		PUHINUI 10314.50	0.024	53.786
10322	9678		25.109	27.148		PUHINUI 10347.50	0.024	53.817
10373	9627	63	24.345	26.885		PUHINUI 10399.00	0.024	53.831
10425	9575	62	23.661	26.649		PUHINUI 10514.00	0.024	53.789
10603	9397	61	22.914	26.164		PUHINUI 10636.50	0.024	53.55
10670	9330	60	22.907	25.924		PUHINUI 10690.00	0.024	53.381
10710	9290	59	22.907	25.818		PUHINUI 10790.00	0.024	59.566
10870	9130	58	22.907	25.638		PUHINUI 10877.50	0.024	59.508
10885	9115		22.7	24.331		PUHINUI 10900.00	0.024	59.522

PUHINUI STREAM
Flood Level Profile
2% AEP - Ultimate Development

Mike 11	20000							
Chainage	Moss	1992	Water Level			Discharge	Flow	
Chainage	Chainage	Section No	Minimum	Maximum			Minimum	Maximum
10915	9085	57	22.7	24.218		PUHINUI 10971.50	0.024	61.592
11028	8972	56	22.244	23.904		PUHINUI 11097.00	0.024	61.657
11166	8834	55	21.788	23.572		PUHINUI 11207.00	0.024	61.716
11248	8752	54	21.568	23.314		PUHINUI 11326.50	0.024	62.561
11405	8595	53	21.146	22.673		PUHINUI 11454.00	0.025	64.477
11503	8497	52	20.863	21.853		PUHINUI 11514.00	0.163	70.569
11525	8475		19.871	21.515		PUHINUI 11527.50	0.163	70.495
11530	8470		19.67	21.512		PUHINUI 11533.75	0.163	70.458
11537.5	8462.5		19.326	21.512		PUHINUI 11539.75	0.154	70.419
11542	8458		19.201	21.512		PUHINUI 11546.00	0.163	70.377
11550	8450		19.201	21.512		PUHINUI 11592.50	0.163	70.025
11635	8365		19.201	21.501		PUHINUI 11640.00	0.162	69.661
11645	8355	51	19.201	21.486		PUHINUI 11696.00	0.181	80.225
11747	8253	50	18.006	21.372		PUHINUI 11808.50	0.181	79.562
11870	8130	49	17.552	21.326		PUHINUI 11935.00	0.184	80.631
12000	8000	48	17.41	21.305		PUHINUI 12005.00	0.184	80.977
12010	7990		17.41	21.298		PUHINUI 12032.50	0.184	81.023
12055	7945		17.11	20.539		PUHINUI 12067.50	0.184	81.022
12080	7920		16.621	20.526		PUHINUI 12095.00	0.184	81.021
12110	7890		16.612	20.513		PUHINUI 12142.50	0.184	81.019
12175	7825		15.841	19.823		PUHINUI 12189.00	0.184	80.994
12203	7797	46	15.674	19.723		PUHINUI 12246.50	0.184	81.199
12290	7710	45	15.47	19.571		PUHINUI 12404.00	0.184	85.327
12518	7482	44	15.414	19.234		PUHINUI 12613.00	0.184	85.412
12708	7292	43	15.297	18.995		PUHINUI 12794.00	0.184	85.349
12880	7120	42	15.043	18.849		PUHINUI 12966.50	0.185	88.94
13053	6947	41	15.005	18.684		PUHINUI 13057.50	0.185	91.69
13062	6938		14.998	18.675		PUHINUI 13067.50	0.185	91.689
13073	6927		14.741	17.456		PUHINUI 13113.00	0.185	91.69
13153	6847	40	13.64	17.307		PUHINUI 13225.00	0.185	91.696
13297	6703	39	13.193	17.217		PUHINUI 13368.50	0.186	96.497
13440	6560	38	12.78	17.104		PUHINUI 13517.50	0.185	97.28
13595	6405	37	12.431	16.978		PUHINUI 13605.00	0.188	105.821
13615	6385		12.409	16.965		PUHINUI 13622.50	0.188	105.837
13630	6370	36	12.405	16.956		PUHINUI 13640.00	0.188	105.852
13650	6350		12.396	16.942		PUHINUI 13657.50	0.188	105.868
13665	6335		12.298	16.759		PUHINUI 13714.00	0.188	105.914
13763	6237	35	11.933	16.631		PUHINUI 13855.50	0.188	108.336
13948	6052	34	11.608	16.403		PUHINUI 14027.50	0.188	112.809
14107	5893	33	11.42	16.201		PUHINUI 14179.50	0.188	112.965
14252	5748	32	11.104	16.026		PUHINUI 14296.00	0.192	134.086
14340	5660	31	11.012	15.94		PUHINUI 14350.00	0.192	133.774
14360	5640		11.009	15.941		PUHINUI 14392.00	0.192	133.6
14424	5576		10.947	15.469		PUHINUI 14428.00	0.192	133.619
14432	5568	30	10.946	15.425		PUHINUI 14479.50	0.192	133.637
14527	5473	29	10.852	15.276		PUHINUI 14612.00	0.192	136.759
14697	5303	28	10.649	14.946		PUHINUI 14782.50	0.192	136.747
14868	5132		10.578	14.667		PUHINUI 14969.00	0.193	136.68
15070	4930	26	10.49	14.383		PUHINUI 15170.00	0.193	136.56
15270	4730	25	10.458	14.128		PUHINUI 15369.00	0.193	138.646
15468	4532	24	10.268	13.732		PUHINUI 15477.50	0.192	138.496
15487	4513		10.137	13.666		PUHINUI 15492.50	0.128	138.468
15498	4502		10.091	13.594		PUHINUI 15514.00	0.215	138.426
15530	4470		9.637	13.513		PUHINUI 15580.00	0.194	138.336
15630	4370		9.475	13.301		PUHINUI 15680.00	0.194	138.195
15730	4270		9.317	13.078		PUHINUI 15780.00	0.195	138.551
15830	4170		9.175	12.835		PUHINUI 15885.00	0.195	138.398

PUHINUI STREAM
Flood Level Profile
2% AEP - Ultimate Development

Mike 11	20000								
Chainage	Chainage	1992	Water Level				Flow		
		Section No	Minimum	Maximum		Discharge	Minimum	Maximum	
16025	3975	21	9.07	12.534		PUHINUI 15976.00	0.195	138.264	
16097	3903		8.979	12.368		PUHINUI 16088.50	0.206	151.957	
16250	3750		8.659	12.074		PUHINUI 16280.00	0.206	151.994	
16480	3520		8.363	11.704		PUHINUI 16588.00	0.207	151.627	
16866	3134	17	7.122	10.741		PUHINUI 16878.00	0.207	151.331	
17060	2940	16	6.308	10.027		PUHINUI 17087.00	0.207	151.09	
17284	2716	15	5.737	8.953		PUHINUI 17339.00	0.207	151.595	
17564	2436	14	5.31	8.426		PUHINUI 17580.00	0.208	151.245	
17766	2234	13	4.537	8.173		PUHINUI 17745.00	0.208	151.367	
17894	2106	12	3.862	7.713		PUHINUI 17934.50	0.208	151.52	
18145	1855		3.015	6.596		PUHINUI 18127.50	0.208	151.587	
18280	1720	10	2.855	6.146		PUHINUI 18326.50	0.21	154.403	
18543	1457	8	2.524	5.097		PUHINUI 18633.50	0.21	152.628	
18894	1106	7	2.524	4.555		PUHINUI 18890.50	0.211	150.449	
19057	943	6	2.524	4.437		PUHINUI 19060.00	0.212	149.837	
19264	736	5	0.503	4.047		PUHINUI 19318.00	0.213	149.804	
19542	458	4	0.501	3.695		PUHINUI 19551.00	0.214	149.808	
19730	270	3	0.501	3.49		PUHINUI 19760.00	0.214	149.759	
19960	40		0.501	3.015		PUHINUI 20071.50	0.214	149.673	
20353	-353	1	0.5	0.5					

PUHINUI STREAM
Flood Level Profile
2% AEP - Existing (2000) Development

Mike 11	20000		Water Level			Flow		
Chainage	Moss	1992	Minimum	Maximum		Discharge	Minimum	Maximum
6922	13078		57.117	58.144		PUHINUI 6933.50	0.001	2.585
6945	13055		57.111	57.985		PUHINUI 6972.50	0.001	2.585
7000	13000		57.101	57.54		PUHINUI 7017.50	0.001	2.584
7035	12965		55.201	55.721		PUHINUI 7066.00	0.001	2.584
7097	12903		53.601	54.298		PUHINUI 7126.50	0.001	2.583
7156	12844		52.801	53.199		PUHINUI 7172.00	0.001	2.583
7188	12812		51.701	52.102		PUHINUI 7212.00	0.001	2.583
7236	12764		49.601	50.26		PUHINUI 7260.50	0.002	4.783
7285	12715		49.001	49.405		PUHINUI 7293.00	0.002	4.784
7301	12699		47.101	47.746		PUHINUI 7318.50	0.002	4.786
7336	12664		45.702	46.285		PUHINUI 7342.00	0.002	4.785
7348	12652		45.203	46.092		PUHINUI 7368.00	0.002	4.775
7388	12612		44.901	45.856		PUHINUI 7416.50	0.002	8.437
7445	12555		43.402	44.643		PUHINUI 7481.50	0.002	8.428
7518	12482		42.602	43.469		PUHINUI 7540.50	0.002	8.419
7563	12437		41.503	42.597		PUHINUI 7576.00	0.002	8.401
7589	12411		41.202	42.545		PUHINUI 7618.00	0.002	8.323
7647	12353		40.803	42.482		PUHINUI 7663.00	0.002	8.263
7679	12321		40.512	42.438		PUHINUI 7693.00	0.003	10.677
7707	12293		40.503	42.383		PUHINUI 7722.00	0.003	10.609
7737	12263		40.503	42.286		PUHINUI 7748.00	0.003	10.535
7759	12241		39.504	42.247		PUHINUI 7773.00	0.003	10.319
7787	12213		39.244	42.242		PUHINUI 7792.50	0.003	10.246
7798	12202		39.243	42.24		PUHINUI 7802.50	0.003	10.209
7807	12193		39.231	42.238		PUHINUI 7812.00	0.003	10.176
7827	12173		38.808	40.563		PUHINUI 7856.50	0.003	10.166
7886	12114		38.705	40.373		PUHINUI 7902.00	0.003	10.156
7918	12082		38.504	40.215		PUHINUI 7928.50	0.003	10.149
7939	12061		38.113	40.178		PUHINUI 7953.00	0.003	10.148
7967	12033		38.107	40.095		PUHINUI 7996.00	0.003	10.153
8025	11975		37.914	40.005		PUHINUI 8032.00	0.013	19.791
8039	11961		37.802	39.958		PUHINUI 8417.50	0.014	20.684
8796	11204	78	34.502	35.762		PUHINUI 8874.00	0.014	22.937
8952	11048	77	31.404	33.513		PUHINUI 9042.00	0.015	22.952
9132	10868	76	30.303	33.113		PUHINUI 9170.00	0.014	22.886
9208	10792	75	29.489	33.063		PUHINUI 9298.00	0.016	31.359
9312	10688	74	29.19	31.475		PUHINUI 9351.00	0.017	35.71
9390	10610	0	28.776	31.072		PUHINUI 9406.50	0.017	35.607
9423	10577		28.616	30.938		PUHINUI 9436.50	0.017	35.558
9450	10550	73	28.494	30.806		PUHINUI 9484.50	0.017	35.538
9519	10481	72	28.005	30.471		PUHINUI 9563.50	0.017	35.59
9608	10392	71	27.675	29.908		PUHINUI 9655.50	0.017	35.64
9703	10297	70	27.413	29.44		PUHINUI 9796.00	0.017	35.761
9889	10111	69	26.474	28.846		PUHINUI 9935.50	0.017	35.814
9982	10018	68	26.46	28.329		PUHINUI 10013.50	0.017	35.834
10045	9955	67	26.092	27.978		PUHINUI 10085.00	0.017	35.907
10125	9875	66	25.684	27.784		PUHINUI 10174.50	0.018	44.192
10224	9776	65	25.31	27.615		PUHINUI 10265.50	0.018	44.163
10307	9693	64	25.309	27.568		PUHINUI 10314.50	0.018	44.135
10322	9678		24.517	26.976		PUHINUI 10347.50	0.018	44.117
10373	9627	63	24.344	26.702		PUHINUI 10399.00	0.018	44.063
10425	9575	62	23.66	26.454		PUHINUI 10514.00	0.018	44.025
10603	9397	61	22.91	25.939		PUHINUI 10636.50	0.018	44.016
10670	9330	60	22.906	25.644		PUHINUI 10690.00	0.018	43.993
10710	9290	59	22.906	25.529		PUHINUI 10790.00	0.018	47.624
10870	9130	58	22.906	25.348		PUHINUI 10877.50	0.018	47.534
10885	9115		22.7	24.184		PUHINUI 10900.00	0.018	47.529

PUHINUI STREAM
Flood Level Profile
2% AEP - Existing (2000) Development

Mike 11	20000		Water Level			Flow	
Chainage	Moss	1992	Minimum	Maximum	Discharge	Minimum	Maximum
10915	9085	57	22.7	24.069	PUHINUI 10971.50	0.018	48.465
11028	8972	56	22.244	23.752	PUHINUI 11097.00	0.018	48.433
11166	8834	55	21.788	23.416	PUHINUI 11207.00	0.018	48.397
11248	8752	54	21.568	23.164	PUHINUI 11326.50	0.019	49.33
11405	8595	53	21.146	22.549	PUHINUI 11454.00	0.019	50.985
11503	8497	52	20.863	21.732	PUHINUI 11514.00	0.185	54.827
11525	8475		19.881	20.817	PUHINUI 11527.50	0.185	54.809
11530	8470		19.682	20.747	PUHINUI 11533.75	0.182	54.794
11537.5	8462.5		19.253	20.733	PUHINUI 11539.75	0.185	54.776
11542	8458		19.202	20.733	PUHINUI 11546.00	0.185	54.757
11550	8450		19.202	20.733	PUHINUI 11592.50	0.185	54.598
11635	8365	0	19.202	20.712	PUHINUI 11640.00	0.185	54.432
11645	8355	51	19.202	20.679	PUHINUI 11696.00	0.188	57.925
11747	8253	50	18.011	20.316	PUHINUI 11808.50	0.188	57.87
11870	8130	49	17.568	20.156	PUHINUI 11935.00	0.191	58.5
12000	8000	48	17.237	20.105	PUHINUI 12005.00	0.191	58.687
12010	7990	0	17.226	20.091	PUHINUI 12032.50	0.191	58.659
12055	7945	0	17.113	19.803	PUHINUI 12067.50	0.191	58.627
12080	7920		16.625	19.787	PUHINUI 12095.00	0.191	58.604
12110	7890		16.613	19.77	PUHINUI 12142.50	0.191	58.555
12175	7825		15.853	19.26	PUHINUI 12189.00	0.191	58.53
12203	7797	46	15.687	19.18	PUHINUI 12246.50	0.191	58.636
12290	7710	45	15.474	19.029	PUHINUI 12404.00	0.191	62.672
12518	7482	44	15.417	18.716	PUHINUI 12613.00	0.191	62.998
12708	7292	43	15.299	18.496	PUHINUI 12794.00	0.191	63.164
12880	7120	42	15.046	18.353	PUHINUI 12966.50	0.191	66.524
13053	6947	41	15.008	18.186	PUHINUI 13057.50	0.191	70.39
13062	6938		15.001	18.177	PUHINUI 13067.50	0.191	70.388
13073	6927		14.742	16.937	PUHINUI 13113.00	0.191	70.358
13153	6847	40	13.641	16.753	PUHINUI 13225.00	0.191	70.201
13297	6703	39	13.196	16.649	PUHINUI 13368.50	0.192	73.661
13440	6560	38	12.783	16.528	PUHINUI 13517.50	0.192	73.823
13595	6405	37	12.441	16.395	PUHINUI 13605.00	0.193	83.674
13615	6385		12.418	16.378	PUHINUI 13622.50	0.193	83.645
13630	6370	36	12.412	16.367	PUHINUI 13640.00	0.193	83.606
13650	6350		12.404	16.35	PUHINUI 13657.50	0.193	83.567
13665	6335		12.302	16.263	PUHINUI 13714.00	0.193	83.461
13763	6237	35	11.936	16.131	PUHINUI 13855.50	0.193	85.737
13948	6052	34	11.611	15.872	PUHINUI 14027.50	0.193	88.798
14107	5893	33	11.422	15.657	PUHINUI 14179.50	0.193	88.902
14252	5748	32	11.107	15.476	PUHINUI 14296.00	0.198	106.619
14340	5660	31	11.016	15.382	PUHINUI 14350.00	0.198	106.482
14360	5640		11.01	15.342	PUHINUI 14392.00	0.198	106.373
14424	5576	0	10.951	15.081	PUHINUI 14428.00	0.198	106.302
14432	5568	30	10.95	15.047	PUHINUI 14479.50	0.198	106.228
14527	5473	29	10.856	14.901	PUHINUI 14612.00	0.198	107.127
14697	5303	28	10.655	14.602	PUHINUI 14782.50	0.198	106.813
14868	5132		10.584	14.367	PUHINUI 14969.00	0.198	106.855
15070	4930	26	10.5	14.138	PUHINUI 15170.00	0.195	106.811
15270	4730	25	10.468	13.916	PUHINUI 15369.00	0.199	108.37
15468	4532	24	10.317	13.581	PUHINUI 15477.50	0.199	108.205
15487	4513		10.278	13.531	PUHINUI 15492.50	0.199	108.175
15498	4502		10.26	13.49	PUHINUI 15514.00	0.199	108.127
15530	4470		10.104	13.466	PUHINUI 15595.00	0.199	107.881
15660	4340	23	9.619	13.336	PUHINUI 15725.00	0.199	106.838
15790	4210		9.388	13.135	PUHINUI 15790.50	0.201	115.917
15791	4209	22	9.379	13.132	PUHINUI 15803.50	0.201	115.881

PUHINUI STREAM
Flood Level Profile
2% AEP - Existing (2000) Development

Mike 11	20000							
Chainage	Chainage	Section No	Minimum	Maximum		Discharge	Minimum	Maximum
15816	4184		9.337	13.036		PUHINUI 15838.00	0.201	115.924
15860	4140		9.279	12.924		PUHINUI 15942.50	0.201	116.029
16025	3975	21	9.131	12.345		PUHINUI 16061.00	0.201	116.034
16097	3903		8.977	12.077		PUHINUI 16173.50	0.201	115.933
16250	3750		8.657	11.807		PUHINUI 16365.00	0.201	115.879
16480	3520		8.361	11.438		PUHINUI 16673.00	0.201	115.775
16866	3134	17	7.119	10.405		PUHINUI 16963.00	0.201	115.769
17060	2940	16	6.306	9.651		PUHINUI 17172.00	0.202	115.109
17284	2716	15	5.735	8.571		PUHINUI 17424.00	0.202	115.456
17564	2436	14	5.309	8.032		PUHINUI 17665.00	0.203	115.458
17766	2234	13	4.536	7.772		PUHINUI 17830.00	0.203	115.423
17894	2106	12	3.861	7.315		PUHINUI 18019.50	0.203	115.315
18145	1855		3.013	6.245		PUHINUI 18212.50	0.204	115.164
18280	1720	10	2.848	5.842		PUHINUI 18411.50	0.208	116.581
18543	1457	8	2.524	4.747		PUHINUI 18718.50	0.208	115.935
18894	1106	7	2.524	4.062		PUHINUI 18975.50	0.209	115.193
19057	943	6	2.524	3.878		PUHINUI 19060.00	0.21	115.181
19264	736	5	0.503	3.674		PUHINUI 19403.00	0.212	114.966
19542	458	4	0.501	3.34		PUHINUI 19636.00	0.213	115.055
19730	270	3	0.501	3.145		PUHINUI 19845.00	0.213	114.884
19960	40		0.501	2.715		PUHINUI 20156.50	0.213	114.715
20353	-353	1	0.5	0.5				