

Special Appendix G Follows

NOTE: These files are contained on a disk inside the paper copies of this report as Macintosh, tab-delimited text files. There are no page numbers.

AB Retent Data Txt

CDBM Retent Data Txt

Crsh Tuff Retent Data Txt

MCM5.1 Retent Data Txt

MCM5.9A Retent Data Txt

PC-4 Retent Data Txt

PC-4 SPOC Retent Data Txt

SIMO-1 Retent Data Txt

TA-54 LLC Retent Data Txt

TA-54-1001 Retent Data Txt

TA-54-1002 Retent Data Txt

TA-54-1003 Retent Data Txt

TA-54-1006 Retent Data Txt

TA-16 P-16 Retent Data Txt

Unsat Prop by Units Txt

Unsat Prop by Well Txt

AB-6 40 Suction (- cm)	AB-6 40 \fq\n	AB-6 60 Suction (- cm)	AB-6 60
\fq\n AB-6 100 Suction (- cm)	AB-6 100 \fq\n	AB-6 110 Suction (- cm)	AB-6 110 \fq\n
AB-6 110 \fq\n	AB-6 150 Suction (- cm)	AB-6 150 \fq\n	AB-7
70			
Suction (- cm)	AB-7 70 \fq\n	AB-7 80 Suction (- cm)	AB-7 80 \fq\n
1	1	1	1
0.1	1	1	1
45.50	0.1	48.10	0.1
46.70	0.1	46.00	0.1
87	36.70	61	45.60
	46.00	62	44.60
153	27.70	153	35.70
	44.00	153	40.20
500	8.20	510	16.10
	34.10	510	26.70
1020	6.80	1020	13.10
	24.30	1020	19.10
5200	6.20	5100	8.00
	11.30	5100	15.80
15100	5.70	15200	6.00
	7.90	15200	13.70
		15200	13.40

	CDBM1 24 Suction (- cm)	CDBM1 24 Psychr (- cm)	CDBM1 24 \fq\n
	CDBM1 34		
	Suction (- cm)	CDBM1 34 Psychr (- cm)	CDBM1 34 \fq\n
	CDBM1 44 Psychr (- cm)	CDBM1 44 \fq\n	CDBM1 44 Suction (- cm)
	CDBM1 54 Psychr (- cm)	CDBM1 54 \fq\n	CDBM1 54 Suction (- cm)
	CDBM1 64 Psychr (- cm)	CDBM1 64 \fq\n	CDBM1 64 Suction (- cm)
	CDBM1 89 Psychr (- cm)	CDBM1 89 \fq\n	CDBM1 89 Suction (- cm)
	CDBM1 94 Psychr (- cm)	CDBM1 94 \fq\n	CDBM1 94 Suction (- cm)
	CDBM1 104 Psychr (- cm)	CDBM1 104 \fq\n	CDBM1 104 Suction (- cm)
	CDBM1 114 Psychr (- cm)	CDBM1 114 \fq\n	CDBM1 114 Suction (- cm)
	CDBM1 124 Psychr (- cm)	CDBM1 124 \fq\n	CDBM1 124 Suction (- cm)
	CDBM1 134 Psychr (- cm)	CDBM1 134 \fq\n	CDBM1 134 Suction (- cm)
	CDBM1 144 Psychr (- cm)	CDBM1 144 \fq\n	CDBM1 144 Suction (- cm)
	CDBM1 154 Psychr (- cm)	CDBM1 154 \fq\n	CDBM1 154 Suction (- cm)
	CDBM1 164 Psychr (- cm)	CDBM1 164 \fq\n	CDBM1 164 Suction (- cm)
	CDBM1 174 Psychr (- cm)	CDBM1 174 \fq\n	CDBM1 174 Suction (- cm)
	CDBM1 184 Psychr (- cm)	CDBM1 184 \fq\n	CDBM1 184 Suction (- cm)
	CDBM1 189 Psychr (- cm)	CDBM1 189 \fq\n	CDBM1 189 Suction (- cm)
	CDBM2 28 Psychr (- cm)	CDBM2 28 \fq\n	CDBM2 28 Suction (- cm)
	CDBM2 38 Psychr (- cm)	CDBM2 38 \fq\n	CDBM2 38 Suction (- cm)
	CDBM2 67 Psychr (- cm)	CDBM2 67 \fq\n	CDBM2 67 Suction (- cm)
	CDBM2 68 Psychr (- cm)	CDBM2 68 \fq\n	CDBM2 68 Suction (- cm)
1	48.82 1	46.18 1	44.53 1
	44.60 1	45.12 1	1
	1	1	1
	1	1	1
	1	43.56 1	1
	1.0	43.00 1	1
	1	1	
0.1	48.82 0.1	46.18 0.1	44.53 0.1
	44.60 0.1	45.12 0.1	44.25 0.1
	50.25 0.1	44.58 0.1	45.08 0.1
	43.73 0.1	44.70 0.1	42.84 0.1
	41.03 0.1	43.56 0.1	41.22 0.1
	43.23 0.1	43.00 0.1	47.90 0.1
	48.39 0.1	44.56 0.1	43.97
34	47.59 31	44.70 31	43.68 34
	42.43 31	43.42 68	35.91 31
	44.11 69	41.39 31	43.61 69
	39.33 68	41.07 31	41.18 31
	39.52 68	40.27 31	40.08 70
	39.44 28.4	41.81 34	41.13 34
	45.63 34	42.12 34	42.43
111	44.59 107	40.50 107	41.44 111
	37.31 107	39.53 134	30.96 107
	32.60 136	37.39 107	40.27 134
	35.48 135	37.63 107	38.04 107
	37.23 136	37.02 107	36.60 137
	34.35 97.0	38.40 111	28.30 111
	39.58 111	36.69 111	37.72
308	35.54 306	27.84 306	30.77 308
	25.24 306	27.41 207	26.56 306
	18.93 208	31.40 306	30.52 207
	28.64 207	32.31 306	20.57 306

		28.71	209		30.55	306		23.90	210
		27.10	316.2		25.80	308		22.76	308
		24.94	308		22.13	308		23.02	
714		24.26	714		20.68	714		19.25	714
		22.51	714		17.30	301		25.71	714
		16.59	301		29.27	714		18.38	301
		25.97	301		28.02	714		18.63	714
		16.68	301		27.74	714		18.77	301
		24.35	714.0		17.66	714		20.95	714
		19.53	714		17.69	714		19.02	
2295		21.33	1632		18.80	1632		13.94	
	2295		20.49	1632		14.26	707		
	22.26	1632		15.59	707		21.31	1632	
	14.15	707		22.46	707		18.44	1632	
	18.47	1632		14.96	707		24.80	1632	
	16.64	707		20.81	1530.0		16.06	2295	
	19.47	2295		16.00	2295		14.22	2295	
	17.43								
5303		18.35	4875		16.96	4875		11.26	
	5303		18.81	4875		11.69	1448		
	19.74	4875		13.15	1448		18.53	4875	
	11.49	1448		17.97	1448		15.32	4875	
	18.04	4875		13.24	1448		22.11	4875	
	14.28	1448		18.07	5150.0		13.61	5303	
	18.25	5303		11.89	5303		13.11	5303	
	16.38								
15348		14.80	15909		15.93	15909		10.06	
	15348		16.30	15909		10.79	5252		
	17.12	15909		12.21	5252		17.21	15909	
	10.40	5252		16.85	5252		13.98	15909	
	17.63	15909		12.37	5252		20.61	15909	
	13.41	5252		16.79	15297.0		12.26	15348	
	16.45	15348		9.37	15348		11.74	15348	
	14.76								
2917	2917	3.63	3885	3885	4.99	5354	5354	4.43	
	4120	4120	5.60	4304	4304	4.25	15042		
	13.09	5792	5792	4.94	15042		15.47	4171	
	4171	6.83	15042		13.92	15042		12.39	
	4395	4395	5.37	4395	4395	5.64	15042		
	18.31	2978	2978	6.47	15042		14.33	7448.0	
	7448.0	4.17	6608	6608	9.65	2580	2580	6.77	
	4956	4956	5.82	4844	4844	5.75			
6200	6200	3.07	11208	11208	3.30	14400	14400	2.49	
	18428	18428	3.09	20212	20212	2.64	2774	2774	
	7.79	24118	24118	3.06	7506	7506	6.07	15746	
	15746	4.23	6037	6037	6.46	2499		6.38	
	19978	19978	3.59	16378	16378	3.89	5374	5374	
	5.30	5711	5711	4.70	2458	2458	5.39	13250.0	
	13250.0		3.31	19019	19019	7.71	4752	4752	5.50
	16847	16847	3.91	18214	18214	3.88			
19519	19519	2.10	22517	22517	2.56				
						7791	7791	6.04	
			20743	20743	4.43				
	13359	13359	4.68	5242	5242	5.91			

		25128	25128	3.95	21895	21895	3.41
4151	4151	4.67	24531.0		24531.0		2.86
16266	16266	3.88					

					20835	20835	4.89
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		16857	16857	3.66			
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21487	21487	3.67					
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Abeelee (84) Suction (-cm)	Abeelee (84) Caisson \fq\n	Abeelee (79) Suction (- cm)	Abeelee (79) PP \fq\n	Stephens (94) Suction (- cm)	Stephens (94) Psychr (- cm)	Stephens (94) \fq\n
0.1	40.00	0.1	40.0	1		
27	29.34	0.0	40.0	0.1		38.30
25	31.18	102.0	35.6	13		36.20
17	31.89	112.2	34.7	45		34.60
		306.0	16.6	87		32.70
91	24.63	336.6	16.2	260		19.00
79	26.20	428.4	14.7	1020		17.40
64	26.69	469.2	14.0	17031	17031	1.30
44	28.74	612.0	12.7			
		673.2	12.4			
140	21.93	816.0	11.6			
119	23.35	897.6	11.3			
99	23.73	979.2	10.9			
85	25.54	1224.0	10.4			
66	25.54	1346.4	10.2			
62	29.25	1489.2	9.9			
		1642.2	9.6			
189	20.09	1805.4	9.2			
160	21.41	1989.0	8.9			
135	21.71					
126	23.36					
105	23.93					
92	25.58					
237	18.41					
200	19.62					
170	19.86					
166	21.36					
145	22.43					
122	23.49					
286	16.86					
241	17.99					
206	18.17					
207	19.53					
185	21.02					
151	21.85					
315	16.40					
265	17.49					
230	17.66					
230	18.98					
195	20.58					
151	21.37					

MCM5.1 43.5 Suction (- cm) MCM5.1 43.5 Psychr (- cm) MCM5.1 43.5
\fq\n MCM5.1 54 Suction (- cm) MCM5.1 54 Psychr (- cm) MCM5.1 54
\fq\n MCM5.1 58 Suction (- cm) MCM5.1 58 Psychr (- cm)
MCM5.1 58 \fq\n MCM5.1 64 Suction (- cm) MCM5.1 64 Psychr (-
cm) MCM5.1 64 \fq\n MCM5.1 67.5 Suction (- cm) MCM5.1 67.5 Psychr
(- cm) MCM5.1 67.5 \fq\n MCM5.1 72.5 Suction (- cm) MCM5.1 72.5
Psychr (- cm) MCM5.1 72.5 \fq\n MCM5.1 82.5 Suction (- cm)
MCM5.1 82.5 Psychr (- cm) MCM5.1 82.5 \fq\n MCM5.1 87.5
Suction (- cm) MCM5.1 87.5 Psychr (- cm) MCM5.1 87.5 \fq\n
MCM5.1 93 Suction (- cm) MCM5.1 93 Psychr (- cm) MCM5.1 93
\fq\n MCM5.1 95 Suction (- cm) MCM5.1 95 Psychr (- cm) MCM5.1 95
\fq\n MCM5.1 97.5 Suction (- cm) MCM5.1 97.5 Psychr (- cm)
MCM5.1 97.5 \fq\n MCM5.1 107.5 Suction (- cm) MCM5.1
107.5 Psychr (- cm) MCM5.1 107.5 \fq\n
0.1 52.10 0.1 45.40 0.1 52.00 0.1
53.20 0.1 52.00 0.1 51.50 0.1
58.90 0.1 51.20 0.1 47.20 0.1
65.60 0.1 45.54 0.1 47.80
67 48.10 62 42.00 61 45.20 67
44.30 61 45.90 61 45.30 62
52.70 61 45.20 61 42.70 67
59.60 61 42.70 62 36.40
103 44.60 102 38.50 102 41.90 103
39.30 102 42.70 102 40.20 102
49.60 102 41.70 102 41.70 103
57.70 102 42.10 102 33.00
153 38.80 510 24.10 510 20.90 153
32.50 510 20.60 510 21.70 510
36.00 510 25.90 510 35.20 153
55.50 510 40.30 510 24.60
541 23.70 918 21.50 1020 15.60 541
19.70 1020 17.00 1020 17.80 918
33.20 1020 20.50 1020 31.10 541
50.40 1020 38.60 918 23.00
950 18.60 3100 18.90 3060 12.20 950
15.60 3060 14.30 3060 13.30
3100 27.20 3060 14.20 3060
22.80 950 47.30 3060 32.80 3100
18.50
3100 12.10 5000 17.10 5100 9.90
3100 12.20 5100 12.70 5100
11.40 5000 23.00 5100 11.10 5100
19.20 3100 42.70 5100 30.70 5000
16.70
5100 10.20 14300 16.80 15300 8.90
5100 10.00 15300 10.10 15300
9.90 14300 22.00 15300 6.30 15300
13.00 5100 40.50 15300 23.60 14300
15.00
15500 8.80 8200 8200 16.80 15000 15000 6.10
15500 8.90 23000 23000 4.90 23000 23000
4.00 6100 6100 22.00 19000 19000 4.90 12000
12000 13.50 15500 38.70 12000 12000 14.70
13200 13200 15.00

6600	6600	8.80	
	4900	4900	8.90
	5600	5600	38.70

MCM5.9 86 Suction (- cm) MCM5.9 86 Psychr (- cm) MCM5.9 86 \fq\n
MCM5.9 95 Suction (- cm) MCM5.9 95 Psychr (- cm) MCM5.9 95
\fq\n MCM5.9 109.5 Suction (- cm) MCM5.9 109.5 Psychr (- cm)
MCM5.9 109.5 \fq\n MCM5.9 120 Suction (- cm) MCM5.9 120
Psychr (- cm) MCM5.9 120 \fq\n MCM5.9 125 Suction (- cm)
MCM5.9 125 Psychr (- cm) MCM5.9 125 \fq\n MCM5.9 130
Suction (- cm) MCM5.9 130 Psychr (- cm) MCM5.9 130 \fq\n
MCM5.9 150 Suction (- cm) MCM5.9 150 Psychr (- cm)
MCM5.9 150 \fq\n MCM5.9 165 Suction (- cm) MCM5.9 165
Psychr (- cm) MCM5.9 165 \fq\n
0.1 68.60 1 49.80 1 64.60 1
43.50 0.1 53.80 0.1 51.90 0.1
53.80 1 48.60
62 45.40 0.1 49.80 0.1 64.60 0.1
43.50 67 49.30 67 48.00 67
49.30 0.1 48.60
102 41.20 62 33.60 62 57.20 62
34.90 103 46.80 103 46.40 103
46.80 67 46.60
510 34.60 102 30.00 102 55.70 102
30.50 153 42.20 153 42.00 153
42.20 103 44.00
918 32.20 510 22.10 510 45.60 510
17.70 541 27.60 541 23.00 541
27.60 153 42.50
3100 28.70 918 20.00 918 39.50 918
15.60 950 21.90 950 17.90 950
21.90 541 29.00
5000 26.20 3100 15.40 3100 30.40
3100 9.70 3100 13.90 3100
11.30 3100 13.90 950 24.50
14300 20.90 5000 14.10 5000 27.80
5000 6.90 5100 10.70 5100
9.30 5100 10.70 3100 20.00
5900 5900 20.90 14300 12.40 14300 19.90
14300 5.10 15500 9.40 15500
8.20 15500 9.40 5100 17.10
15200 15200 12.40 4700 4700 19.90
8500 8500 5.10 7300 7300 9.40 6800 6800
8.20 7800 7800 9.40 15500 15.80

5500 5500 15.80

	6017		14.60	6017		17.50	5099	
	17.60	5099		18.50	6017		14.20	642
	7.30	4599	4599	4.60	2223		13.10	2233
	15.50	2233		13.80				
15705		8.90	15705		10.70	15705		9.10
	15705		13.10	15705		15.10	14991	
	17.40	14991		17.90	15704		12.90	918
	6.90	14991		14.50	14991		13.60	14991
	15.50	14991		13.40				
12798	12798	4.90	24108	24108	7.90	27341	27341	6.50
	8913	8913	8.80	7567	7567	11.90	15450	15450
	4.40	23353	23353	4.60	12197	12197	12.60	2550
	6.40	19050	19050	2.50	8852	8852	3.90	11840
	11840	5.40	8770	8770	5.10			
23557	23557	4.10						
	25281	25281	7.40	19662	19662	9.90		
				19856	19856	5.50	6119	
	6.10				27167	27167	2.30	15379
	15379	4.20	11228	11228	2.90			
						15705		5.80
	22925	22925	2.20					
						25311	25311	1.60

PC-4 64 Suction (- cm)	PC-4 64 Psychr (- cm)	PC-4 64 \fq\n	PC-4 78.5 Suction (- cm)	PC-4 78.5 Psychr (- cm)	PC-4 78.5 \fq\n	PC-4 78.5D Suction (- cm)	PC-4 78.5D Psychr (- cm)	PC-4 78.5D \fq\n	PC-4 79 Suction (- cm)	PC-4 79 Psychr (- cm)	PC-4 79 \fq\n	PC-4 84 Suction (- cm)	PC-4 84 Psychr (- cm)	PC-4 84 \fq\n	PC-4 88.5 Suction (- cm)	PC-4 88.5 Psychr (- cm)	PC-4 88.5 \fq\n	PC-4 118.5 Suction (- cm)	PC-4 118.5 Psychr (- cm)	PC-4 118.5 \fq\n	PC-4 119 Suction (- cm)	PC-4 119 Psychr (- cm)	PC-4 119 \fq\n	PC-4 148.5 Suction (- cm)	PC-4 148.5 Psychr (- cm)	PC-4 148.5 \fq\n	PC-4 149 Suction (- cm)	PC-4 149 Psychr (- cm)	PC-4 149 \fq\n																																																																																																																																									
2	44.70	2	41.10	2	44.50	2	47.70	53	43.70	53	38.50	53	44.50	53	46.10	155	33.20	155	32.80	155	37.20	155	42.00	308	23.50	308	24.20	308	28.60	308	32.70	512	19.10	512	19.30	512	22.30	512	27.00	1002	13.80	1002	17.70	1002	26.10	1002	13.50	1002	15.10	1002	17.20	1002	16.60	1002	23.20	1002	15.30	1002	21.20	2532	9.10	2532	10.70	2532	20.10	2532	8.20	2532	10.40	2532	12.20	2532	10.50	2532	17.20	2532	10.50	2532	15.90	4979	7.00	4979	7.80	4979	17.60	4979	6.20	4979	7.80	4979	9.00	4979	8.30	4979	15.30	4979	8.90	4979	14.40	15603	6.10	15501	7.00	15501	16.20	15603	5.40	15603	7.00	15501	8.20	15603	7.60	15501	14.70	15501	8.20	15603	14.10	5232	5.30	21671	21671	4.70	18764	18764	13.90	10127	10127	4.40	7261	7261	6.20	26882	26882	6.10	2784	2784	6.90	14706	14706	12.30	4018	4018	7.50	1193	1193	13.30	14104	14104	4.00	13686	13686	3.70	10473	10473	5.50	18652	18652	4.50	12921	12921	5.60	11993	11993	10.80

30971 30971 4.40

19590 19590 5.00

22813 22813 9.90

SIMO-1 33 Suction (- cm)	SIMO-1 86 Suction (- cm)	SIMO-1 33 Suction (- cm)	SIMO-1 86 Suction (- cm)	SIMO-1 90 Suction (- cm)	SIMO-1 90 Suction (- cm)
0.1	46.00	0.1	59.00	0.1	50.10
62	43.10	87	45.70	87	48.80
153	35.10	153	34.90	153	46.90
510	24.00	500	23.20	500	37.90
1020	20.30	1020	21.70	1020	33.40
5100	16.90	5200	18.50	5200	27.90
15200	15.20	15100	15.90	15100	26.20

8LLC-85-14 Suction (- cm)	8LLC-85-14 \fq\n	5LLC-85-15 Suction							
(- cm) 5LLC-85-15 \fq\n	2ALLC-86-22 Suction (- cm)	2ALLC-86-22 \fq\n	7 LLC-86-22						
2BLLC-86-22 Suction (- cm)	2BLLC-86-22 \fq\n	1 LLC-86-22 Suction (- cm)	1						
1LLC-86-22 \fq\n	1BLLC-86-22 Suction (- cm)	1BLLC-86-22 \fq\n							
0.1	44.10	0.1	48.20	0.1	51.00	0.1	48.30	0.1	
	48.70	0.1	50.70	0.1	50.80				
53	39.60	0.1	46.40	53	49.30	53	45.80	53	
	47.70	53	49.70	53	50.90				
104	38.10	53	48.20	104	48.50	104	43.30	104	
	46.10	104	48.30	104	49.90				
512	16.10	104	39.10	512	21.80	512	21.30	512	
	27.00	512	37.70	512	37.10				
1030	8.20	512	16.60	1030	11.10	1030	10.40	1030	
	11.60	1030	31.80	1030	30.90				
3040	2.80	1030	10.10	3040	4.70	3040	4.10	3040	
	3.40	3040	17.10	3040	16.60				
5080	1.40	3040	5.80	5080	3.10	5080	2.80	5080	
	1.40	5080	12.10	5080	11.70				
15200	1.00	5080	5.10	15200	2.30	15200	0.10	15200	
	0.70	15200	8.70	15200	9.30				
		15200	4.10						

54-1001 68 Suction (- cm)	54-1001 68 Psychr (- cm)	54-1001 68
\fq\n 54-1001 83 Suction (- cm)	54-1001 83 Psychr (- cm)	
54-1001 83 \fq\n	54-1001 102 Suction (- cm)	54-1001 102
Psychr (- cm) 54-1001 102 \fq\n	54-1001 122 Suction (- cm)	
54-1001 122 Psychr (- cm)	54-1001 122 \fq\n	54-1001 142
Suction (- cm) 54-1001 142 Psychr (- cm)	54-1001 142 \fq\n	
0.1	41.40 0.1	46.00 0.1 51.40 0.1
	46.40 0.1	48.20
51	38.60 51	43.30 51 46.80 51
	42.40 51	44.60
112	37.30 112	41.30 112 44.10 99
	40.40 112	43.10
326	29.30 326	38.10 326 37.30 306
	34.60 326	37.70
918	25.70 918	35.10 918 21.40 920
	21.70 918	28.80
6884	6884 1.30 4304 4304	2.00 6333 6333 1.90
	5304 5304 6.50 5599 5599	11.20
18101	18101 1.20 14012 14012	1.10 12656 12656 1.20
	12074 12074 3.80 21283 21283	7.80

54-1002 92 Suction (- cm)	54-1002 92 Psychr (- cm)	54-1002 92
\fq\n 54-1002 122 Suction (- cm)	54-1002 122 Psychr (- cm)	
54-1002 122 \fq\n	54-1002 142 Suction (- cm)	54-1002 142
Psychr (- cm) 54-1002 142 \fq\n	54-1002 179 Suction (- cm)	
54-1002 179 Psychr (- cm)	54-1002 179 \fq\n	54-1002 244
Suction (- cm) 54-1002 244 Psychr (- cm)	54-1002 244 \fq\n	
0.1	46.00 0.1	49.50 0.1
	39.30 0.1	39.30
51	43.60 51	45.30 61
	37.70 51	37.30
112	42.40 112	43.60 102
	35.20 102	33.10
311	38.40 311	37.40 301
	25.90 306	22.00
903	32.30 903	22.50 923
	20.90 918	20.70
5915	5915 2.10 6884 6884	1.90 7118 7118 9.00
	5721 5721 2.00 5283 5283	2.20
17948	17948 0.70 20886 20886	1.20 17071 17071 7.00
	25495 25495 1.60 14094 14094	1.90

54-1003 102 Suction (- cm)	54-1003 102 Psychr (- cm)	54-1003 102
\fq\n 54-1003 119 Suction (- cm)	54-1003 119 Psychr (- cm)	
54-1003 119 \fq\n	54-1003 157 Suction (- cm)	54-1003 157
Psychr (- cm) 54-1003 157 \fq\n	54-1003 207 Suction (- cm)	
54-1003 207 Psychr (- cm)	54-1003 207 \fq\n	54-1003 261
Suction (- cm) 54-1003 261 Psychr (- cm)	54-1003 261 \fq\n	
54-1003 271 Suction (- cm)	54-1003 271 Psychr (- cm)	
54-1003 271 \fq\n		
0.1	51.00 0.1	59.90 0.1
	42.80 0.1	48.80 0.1
51	46.10 51	43.90 51
	31.30 61	41.60 61
112	44.40 102	43.50 102
	18.40 102	21.40 102
311	37.80 306	40.70 306
	14.70 301	18.40 301
903	27.70 918	35.90 918
	13.10 923	14.70 923
5599	5599 1.70 6792	6792 3.10 7169
	7241 7241 9.10 6812	6812 2.90 5864
27769	27769 0.70 14542	14542 2.40 14818
	26015 26015 1.20 16347	16347 1.80 20702
		20702 20702 3.90

54-1006 42 Suction (- cm)	54-1006 42 Psychr (- cm)	54-1006 42
\fq\n 54-1006 76 Suction (- cm)	54-1006 76 Psychr (- cm)	
54-1006 76 \fq\n	54-1006 124 Suction (- cm)	54-1006 124
Psychr (- cm) 54-1006 124 \fq\n	54-1006 136 Suction (- cm)	
54-1006 136 Psychr (- cm)	54-1006 136 \fq\n	54-1006 161
Suction (- cm) 54-1006 161 Psychr (- cm)	54-1006 161 \fq\n	
0.1	44.90 0.1	44.50 0.1 43.50 0.1
	47.20 0.1	52.60
51	40.80 51	42.10 51 39.80 51
	45.30 51	42.30
102	38.50 112	40.90 102 38.70 311
	40.70 306	34.00
296	24.80 311	34.40 296 33.30 903
	29.80 918	32.00
918	15.50 903	29.30 923 20.50
	4691 4691 4.00 6853 6853 0.80	
7536 7536 2.00 6098 6098 2.50 6557 6557 3.80		
	14746 14746 1.90 13961 13961 0.90	
13257 13257 1.10 21630 21630 0.90 14104 14104 2.20		

	P-16 8 Suction (- cm)	P-16 8 \fq\n	P-16 12 Suction (- cm)	P-16 12 \fq\n	P-16 17 Suction (- cm)	P-16 17 \fq\n	P-16 22 Suction (- cm)	P-16 22 \fq\n	P-16 26 Suction (- cm)	P-16 26 \fq\n	P-16 36 Suction (- cm)	P-16 36 \fq\n	P-16 43 Suction (- cm)	P-16 43 \fq\n	P-16 62 Suction (- cm)	P-16 62 \fq\n	P-16 76 Suction (- cm)	P-16 76 \fq\n	P-16 81 Suction (- cm)	P-16 81 \fq\n
0.1	51.80	0.1	56.10	0.1	54.90	0.1	56.20	0.1	52.00	0.1	42.80	0.1	42.30	0.1	36.40	0.1	41.60	0.1	34.60	
100.0	49.40	98.0	53.30	101.0	53.60	97.0	56.10	98.5	51.40	205.0	41.40	100.5	42.30	95.5	34.80	95.0	37.90	1019.8	27.50	
195.0	49.00	198.0	52.70	199.0	52.90	1019.8	28.10	1019.8	23.30	1019.8	30.20	209.0	42.20	202.0	32.60	199.0	33.10	3059.4	18.30	
1019.8	15.00	1019.8	37.60	1019.8	42.20	3059.4	22.80	3059.4	21.30	3059.4	14.20	1019.8	33.50	1019.8	19.30	1019.8	24.00	5099.0	17.10	
3059.4	13.90	3059.4	29.30	3059.4	29.20	5099.0	19.50	5099.0	16.60	5099.0	13.40	3059.4	30.50	3059.4	11.20	3059.4	12.50	15297.0	10.70	
5099.0	12.50	5099.0	26.10	5099.0	26.00	15297.0	12.40	15297.0	10.00	15297.0	9.40	5099.0	28.90	5099.0	10.40	5099.0	11.60			
15297.0		8.30	15297.0	19.90	15297.0	20.40					15297.0	22.80	15297.0	7.90	15297.0	8.30				

Sample No.	Unit	Weld/Orig	Lith	Depth (ft)	Dry Bulk Density		
(g/cm ³)	Theta	f _q	Theta res	f _q	Porosity		
	Saturation (%)	K _{dsat}	(cm/sec)	log K _{dsat}	N		
	Alpha	f _a	(cm ^{u-1})	Effect Sat	Insitu K	(cm/sec)	
	Insitu K	(cm/yr)	Suction (cm)	-Suction (cm)	Head (cm)		
MCM5.1	Alluvium			4	1.34	6.53	45.31
							14.41
MCM5.1	Alluvium			8	1.40	8.29	42.86
							19.34
MCM5.1	Alluvium			13.5	1.40	8.13	42.86
							18.97
MCM5.1	Alluvium			18	1.36	21.57	44.49
							48.48
MCM5.1	Alluvium			22.5	1.25	25.67	48.98
							52.41
MCM5.1	Alluvium			28	1.44	41.78	41.22
							100.00
PC4	Alluvium			4	1.61	22.60	0.00
							34.62
		65.28	8.20e-04	-3.086	1.27745	0.07114	0.6528
		2.18e+01	5.81e+01	-5.81e+01	-1.80e+02		6.92e-07
PC4	Alluvium			9	1.20	26.00	7.63
							46.49
		55.93	6.50e-05	-4.187	1.83837	0.00584	0.4728
		1.23e+01	3.72e+02	-3.72e+02	-6.47e+02		3.90e-07
MCM5.1	Caved Alluvium			34	1.75	28.45	28.57
							99.58
TA-21:10	Tshirege 3						
		8.06e-05		-4.094			
TA-21:11	Tshirege 3						
		9.44e-05		-4.025			
TA-21:12	Tshirege 3						
		8.33e-06		-5.079			
TA-21:13	Tshirege 3						
		5.00e-05		-4.301			
TA-21:14	Tshirege 3						
		3.89e-05		-4.410			
TA-21:15	Tshirege 3						
		3.06e-05		-4.514			
TA-21:16	Tshirege 3						
		4.17e-05		-4.380			

TA-21:17	Tshirege 3 2.22e-05	-4.654
TA-21:18	Tshirege 3 3.61e-05	-4.442
TA-21:19	Tshirege 3 2.78e-05	-4.556
TA-21:20	Tshirege 3 5.00e-05	-4.301
TA-21:21	Tshirege 3 8.61e-05	-4.065
TA-21:22	Tshirege 3 3.33e-05	-4.478
TA-21:23	Tshirege 3 8.06e-05	-4.094
TA-21:24	Tshirege 3 2.50e-05	-4.602
TA-21:25	Tshirege 3 8.33e-06	-5.079
TA-21:26	Tshirege 3 2.50e-05	-4.602
TA-21:27	Tshirege 3 3.61e-05	-4.442
TA-21:28	Tshirege 3 5.28e-05	-4.277
TA-21:29	Tshirege 3 4.17e-05	-4.380
TA-21:30	Tshirege 3 5.56e-06	-5.255
TA-21:7	Tshirege 3 6.67e-05	-4.176
TA-21:8	Tshirege 3 1.03e-04	-3.987
TA-21:9	Tshirege 3 4.44e-05	-4.353

TA-16 P-16	Tshirege 3D	mod	8	1.25	35.36	7.89		
	51.80	68.26	1.58e-04	-3.801	2.87664	0.00251	0.6256	
	1.56e-05	4.92e+02	4.06e+02	-4.06e+02				
	-6.49e+02							
TA-16 P-16	Tshirege 3D	mod	12	1.26	18.74	10.99		
	56.10	33.40	2.84e-04	-3.547	1.42277	0.00277	0.1717	
	7.36e-11	2.32e-03	2.33e+04	-2.33e+04				
	-2.36e+04							
TA-16 P-16	Tshirege 3D	mod	17	1.27	22.21	15.47		
	54.90	40.46	2.78e-04	-3.556	1.69286	0.00134	0.1709	
	3.46e-09	1.09e-01	9.48e+03	-9.48e+03				
	-1.00e+04							
TA-16 P-16	Tshirege 3D	mod	22	1.25	19.95	12.31		
	56.20	35.50	2.00e-04	-3.699	2.96355	0.00152	0.1741	
	1.92e-07	6.05e+00	1.56e+03	-1.56e+03				
	-2.23e+03							
TA-16 P-16	Tshirege 3D	mod	26	1.38	19.19	9.62		
	52.00	36.90	9.18e-05	-4.037	1.69308	0.00212	0.2259	
	5.17e-09	1.63e-01	3.97e+03	-3.97e+03				
	-4.77e+03							
TA-16 P-16	Tshirege 3D	mod	36	1.61	23.42	9.13		
	42.80	54.72	2.25e-05	-4.648	2.39840	0.00109	0.4243	
	2.93e-07	9.23e+00	1.52e+03	-1.52e+03				
	-2.62e+03							
TA-16 P-16	Tshirege 3C	mod	43	1.62	36.75	11.44		
	42.30	86.88	8.57e-05	-4.067	1.28127	0.00182	0.8202	
	9.03e-07	2.85e+01	7.41e+02	-7.41e+02				
	-2.05e+03							
TA-16 P-16	Tshirege 3C	mod	62	1.70	19.64	6.01		
	36.40	53.96	5.15e-04	-3.288	1.75912	0.00277	0.4485	
	1.72e-06	5.42e+01	9.43e+02	-9.43e+02				
	-2.83e+03							
TA-16 P-16	Tshirege 3C	mod	76	1.57	23.12	0.00		
	41.60	55.58	2.28e-04	-3.642	1.38108	0.00517	0.5558	
	2.01e-07	6.33e+00	8.24e+02	-8.24e+02				
	-3.14e+03							
TA-16 P-16	Tshirege 3C	mod	81	1.80	20.10	4.00		
	34.60	58.09	4.41e-05	-4.356	1.51876	0.00113	0.5262	
	9.67e-08	3.05e+00	2.74e+03	-2.74e+03				
	-5.21e+03							
5 LLC 85-15	Tshirege 2B	dens-mod	10.5	1.46	4.00			
	3.82	46.40	8.62	1.60e-03	-2.796	2.04394	0.00599	
	0.0043	1.55e-14	4.89e-07	3.06e+04	-3.06e+04			
	-3.09e+04							
54-1006	Tshirege 2B	Tshirege 2	42	1.28	4.70	0.00		
	44.90	10.47	4.10e-04	-3.387	1.75998	0.00636	0.1047	
	7.16e-10	2.26e-02	3.05e+03	-3.05e+03				
	-4.33e+03							
8 LLC-85-14	Tshirege 2B	dens-mod	30	1.37	1.30			
	0.00	44.10	2.95	4.20e-04	-3.377	1.89014	0.00600	

	0.0295	5.06e-12	1.60e-04	8.73e+03	-8.73e+03		
		-9.65e+03					
AB-6	Tshirege 2B	mod	40	1.35	23.40	5.54	45.50
	51.43	3.70e-04	-3.432	2.64844		0.00817	0.4470
							8.09e-06
		2.55e+02	1.77e+02	-1.77e+02	-1.40e+03		
AB-6	Tshirege 2B	mod	60	1.37	44.00	6.66	48.10
	91.48	3.50e-03	-2.456	2.10656		0.00651	0.9011
							1.17e-03
		3.70e+04	7.48e+01	-7.48e+01	-1.90e+03		
LGM 85-06	Tshirege 2B		29				10.20
	42.50	4.80e-04	-3.319	1.37000			0.04400
LGM 85-06	Tshirege 2B		51				14.30
	40.20	8.42e-05	-4.075	1.27000			0.03600
LGM 85-11	Tshirege 2B		3				6.10
	54.00	5.38e-04	-3.269	1.25000			0.04100
LGM 85-11	Tshirege 2B		30				0.00
	51.50	2.84e-04	-3.547	1.64000			0.00900
LLM 85-01	Tshirege 2B		30				35.27
	39.60	1.08e-04	-3.967	1.30474			0.01536
LLM 85-02	Tshirege 2B		7				0.00
	41.50	4.41e-04	-3.356	1.25516			0.02745
LLM 85-02	Tshirege 2B		36				31.62
	46.50	1.17e-04	-3.932	1.64920			0.14633
LLM 85-05	Tshirege 2B		15				0.00
	52.60	5.58e-04	-3.253	1.16725			0.08670
LLM 85-05	Tshirege 2B		36				0.00
	73.60	2.23e-04	-3.652	1.58630			0.00543
2A LLC 86-22	Tshirege 2A	dens-mod	54.5	1.26	2.50		
	1.98	51.00	4.90	8.20e-05	-4.086	2.23828	0.00368
		0.0106	1.91e-13	6.04e-06	1.06e+04	-1.06e+04	
							-1.23e+04
2B LLC 86-22	Tshirege 2A	dens-mod	54.5	1.26	1.30		
	0.00	48.30	2.69	2.50e-04	-3.602	1.93242	0.00450
		0.0269	2.97e-12	9.37e-05	1.07e+04	-1.07e+04	
							-1.24e+04
54-1001	Tshirege 2A	mod/Tshir 1v	68	1.20	1.60	0.00	
	41.40	3.86	1.30e-04	-3.886	1.89406	0.00339	0.0386
							5.88e-12
		1.86e-04	6.10e+03	-6.10e+03			
							-8.17e+03
54-1001	Tshirege 2A	mod/Tshir 1v	83	1.25	2.57	0.00	
	46.00	5.59	1.10e-04	-3.959	2.22504	0.00218	0.0559
							2.22e-10
		7.01e-03	4.82e+03	-4.82e+03			
							-7.35e+03
54-1001	Tshirege 2A	mod/Tshir 1v	102	1.19	6.90	0.00	

	51.40	13.42	1.60e-04	-3.796	1.78171	0.00345	0.1342
	1.20e-09		3.79e-02	3.76e+03		-3.76e+03	
	-6.87e+03						
54-1002	Tshirege 2A	Tshirege 1v	92.5	1.26	1.50	0.00	
	46.00	3.26	8.10e-05	-4.092	2.21251	0.00118	0.0326
	1.65e-11		5.21e-04	8.00e+03		-8.00e+03	
	-1.08e+04						
54-1003	Tshirege 2A	Tshirege 1v	102	1.22	1.50	0.00	
	51.00	2.94	1.30e-04	-3.886	1.73337	0.00295	0.0294
	2.30e-13		7.26e-06	4.15e+04		-4.15e+04	
	-4.46e+04						
54-1006	Tshirege 2A	Tshirege 1v	76.9	1.28	0.64	0.00	
	44.50	1.44	9.80e-05	-4.009	1.87953	0.00295	0.0144
	3.45e-14		1.09e-06	4.21e+04		-4.21e+04	
	-4.45e+04						
7 LLC 86-22	Tshirege 2A	dens-mod	65	1.27	1.30		
	0.00	48.70	2.67	1.40e-04	-3.854	2.34693	0.00257
	0.0267	2.48e-11		7.81e-04	5.73e+03		-5.73e+03
	-7.71e+03						
AB-6	Tshirege 2A	mod	100	1.27	10.40	9.47	48.50
	21.44	8.80e-04		-3.056	1.58258	0.01055	0.0239
	9.07e-07		5.75e+04	-5.75e+04		-6.05e+04	2.87e-14
AB-6	Tshirege 2A	mod	110	1.47	21.70	5.60	42.70
	50.82	7.40e-05		-4.131	2.20788	0.00286	0.4340
	2.42e+01		6.25e+02	-6.25e+02		-3.98e+03	7.68e-07
LLM 85-01	Tshirege 2A		52			8.87	
	64.40		2.64e-04	-3.578	1.19068	0.03552	
LLM 85-02	Tshirege 2A		67			15.98	
	43.30		9.79e-05	-4.009	1.27051	0.03658	
1 LLC 86-22	Tshirege 1B	mod	131.5	1.05	20.00	1.20	
	50.70	39.45	1.90e-05	-4.721	1.58555	0.00210	0.3798
	8.85e-09		2.79e-01	2.37e+03		-2.37e+03	
	-6.38e+03						
1B LLC 86-22	Tshirege 1B	mod	131.5	1.05	20.00	4.37	
	50.80	39.37	2.70e-05	-4.569	1.70906	0.00205	0.3366
	1.48e-08		4.67e-01	2.17e+03		-2.17e+03	
	-6.18e+03						
54-1001	Tshirege 1B	mod/Tshir 1v	122	1.18	9.00	0.00	
	46.40	19.40	2.20e-05	-4.658	1.58330	0.00409	0.1940
	1.80e-10		5.68e-03	4.04e+03		-4.04e+03	
	-7.76e+03						
54-1001	Tshirege 1B	mod/Tshir 1v	142	1.20	15.60	0.00	
	48.20	32.37	8.20e-05	-4.086	1.42935	0.00373	0.3237
	2.34e-09		7.39e-02	3.65e+03		-3.65e+03	
	-7.98e+03						
54-1002	Tshirege 1B	Tshirege 1v	122	1.23	3.20	0.00	
	49.50	6.46	4.60e-05	-4.337	1.77256	0.00313	0.0646
	7.74e-12		2.44e-04	4.90e+03		-4.90e+03	
	-8.62e+03						
54-1002	Tshirege 1B	Tshirege 1v	142.5	1.19	11.50	1.66	

	49.10	23.42	2.50e-05	-4.602	1.39251	0.01545	0.2073
	1.29e-11		4.06e-04	3.55e+03		-3.55e+03	
	-7.90e+03						
54-1003	Tshirege 1B	Tshirege 1v	119.5	1.22	6.40		
	59.90	9.90e-05	-4.004				
54-1006	Tshirege 1B	Tshirege 1v	124.5	1.22	2.50	0.00	
	43.50	5.75	4.50e-05	-4.347	1.72065	0.00354	0.0575
	2.26e-12		7.12e-05	1.49e+04		-1.49e+04	
	-1.87e+04						
54-1006	Tshirege 1B	Tshirege 1v	136.7	1.28	6.30	0.00	
	47.20	13.35	5.70e-05	-4.244	2.08741	0.00143	0.1335
	2.50e-09		7.90e-02	4.41e+03		-4.41e+03	
	-8.58e+03						
LGM 85-06	Tshirege 1B	99			41.00	52.60	
	1.27e-03	-2.896	1.22000				
LGM 85-11	Tshirege 1B	94			19.10		
	64.30	1.08e-04	-3.967	1.17000	0.08000		
LLM 85-01	Tshirege 1B	101			35.80		
	62.10	2.55e-04	-3.593	1.49238	0.03945		
LLM 85-02	Tshirege 1B	117			0.00		
	48.50	1.66e-04	-3.780	1.22284	0.01933		
LLM 85-05	Tshirege 1B	76			0.00		
	74.20	1.27e-04	-3.896	1.07979	0.04930		
CDBM-2	Weathered 1A	weathered-mod	28	1.19	11.53	5.13	
	47.90	24.07	8.50e-04	-3.071	1.43335	0.02808	0.1496
	1.05e-10		3.31e-03	2.85e+03		-2.85e+03	
	-3.70e+03						
PC4	Weathered 1A	weathered	14	1.19	24.50	6.57	
	42.95	57.04	4.30e-05	-4.367	1.86178	0.00645	0.4929
	3.46e-07		1.09e+01	3.09e+02		-3.09e+02	
	-7.36e+02						
PC4	Weathered 1A	weathered	29	1.49	24.20	0.00	
	38.21	63.33	2.50e-05	-4.602	1.24908	0.02327	0.6333
	8.82e-09		2.78e-01	2.47e+02		-2.47e+02	
	-1.13e+03						
PC4	Weathered 1A	weathered	59	1.29	44.00	8.58	
	48.97	89.85	2.20e-05	-4.658	1.71086	0.00428	0.8769
	3.61e-06		1.14e+02	1.31e+02		-1.31e+02	
	-1.93e+03						
MCM5.1	Weathered 1A	weathered	43.5	1.16	24.06	5.31	
	52.10	46.18	2.00e-04	-3.699	1.66065	0.00717	0.4008
	2.15e-07		6.79e+00	5.22e+02		-5.22e+02	
	-1.85e+03						
54-1002	Tshirege 1A	Tshirege 1g	179.3	1.16	6.60	0.00	

	39.30	16.79	6.50e-05	-4.187	1.81492	0.00429	0.1679
	1.92e-09		6.06e-02	2.06e+03	-2.06e+03		
	-7.52e+03						
54-1002	Tshirege 1A	Tshirege 1g	244	1.14	7.50	0.00	
	39.30	19.08	1.70e-04	-3.770	1.74483	0.00619	0.1908
	5.84e-09		1.84e-01	1.48e+03	-1.48e+03		
	-8.91e+03						
54-1003	Tshirege 1A	Tshirege 1g	157	1.14	4.90	2.52	
	43.20	11.34	1.30e-04	-3.886	1.76458	0.00403	0.0584
	1.20e-11		3.78e-04	1.02e+04	-1.02e+04		
	-1.50e+04						
54-1003	Tshirege 1A	Tshirege 1g	207	1.18	8.00		
	42.80	18.69	1.50e-04	-3.824			
54-1003	Tshirege 1A	Tshirege 1g	261	1.11	9.60		
	48.80	19.67	2.70e-04	-3.569			
54-1003	Tshirege 1A	Tshirege 1g	271.5	1.31	12.10		
	41.00	29.51	2.60e-04	-3.585			
54-1006	Tshirege 1A	Tshirege 1g	161	1.13	1.80	0.00	
	52.60	3.42	1.20e-04	-3.921	1.57913	0.00832	
AB-6	Tshirege 1A	non	150	1.32	22.80	5.67	46.70
	48.82	6.10e-05	-4.215	1.81556	0.00228	0.4175	1.77e-07
	5.59e+00		1.18e+03	-1.18e+03	-5.75e+03		
CDBM-1	Tshirege 1A	mod	24	1.17	2.67	0.00	48.82
	5.47	6.20e-05	-4.208	1.93923	0.00294	0.0547	2.09e-11
	6.60e-04		7.50e+03	-7.50e+03	-8.23e+03		
CDBM-1	Tshirege 1A	mod	34	1.07	5.85	0.00	46.18
	12.67	2.20e-04	-3.658	1.63394	0.00547	0.1267	2.80e-10
	8.84e-03		4.74e+03	-4.74e+03	-5.78e+03		
CDBM-1	Tshirege 1A	mod	44	1.26	9.27	0.00	44.53
	20.82	7.00e-05	-4.155	1.68241	0.00406	0.2082	2.32e-09
	7.32e-02		2.43e+03	-2.43e+03	-3.77e+03		
CDBM-1	Tshirege 1A	non-mod	54	1.09	8.95	0.00	44.60
	20.07	4.60e-04	-3.337	1.51856	0.00701	0.2007	1.99e-09
	6.27e-02		3.14e+03	-3.14e+03	-4.78e+03		
CDBM-1	Tshirege 1A	non-mod	64	1.23	11.25	0.53	45.12
	24.93	1.20e-04	-3.921	1.72354	0.00531	0.2405	1.19e-08
	3.76e-01		1.32e+03	-1.32e+03	-3.27e+03		
CDBM-2	Tshirege 1A	mod	38	0.94	8.34	2.59	48.39
	17.23	4.50e-04	-3.347	1.79130	0.00712	0.1256	2.61e-09
	8.22e-02		1.92e+03	-1.92e+03	-3.08e+03		
LGM 85-06	Tshirege 1A		115		26.30		
	56.30		9.11e-05	-4.040	1.15000	0.09200	
LGM 85-11	Tshirege 1A		115		40.70		
	60.10		1.76e-04	-3.754	1.37000	0.08000	
LLM 85-01	Tshirege 1A		124		4.26		
	48.90		2.25e-04	-3.648	1.29758	0.04719	
LLM 85-05	Tshirege 1A		123		43.11		

	65.60	1.57e-04	-3.804	1.35709	0.41581		
MCC5.9A	Tshirege 1A		85	1.00	38.91	59.33	
	65.58						
MCC5.9A	Tshirege 1A	non	86	1.08	38.79	0.00	68.60
	56.55	3.90e-03	-2.409	1.15173	0.23119	0.5655	8.97e-09
	2.83e-01	1.83e+02	-1.83e+02	-2.80e+03			
MCC5.9A	Tshirege 1A		86	1.09	38.79	55.50	
	69.89						
MCC5.9A	Tshirege 1A		90	0.95	42.21	61.04	
	69.15						
MCC5.9A	Tshirege 1A	non	95	1.35	17.22	5.17	49.80
	34.58	1.10e-03	-2.959	1.25778	0.08649	0.2700	6.80e-11
	2.15e-03	1.85e+03	-1.85e+03	-4.75e+03			
MCC5.9A	Tshirege 1A		95	1.52	17.22	38.14	
	45.15						
MCM5.1	Tshirege 1A		43	1.19	24.06	51.43	
	46.78						
MCM5.1	Tshirege 1A		46.5	0.99	15.09	59.59	
	25.32						
MCM5.1	Tshirege 1A		50.5				
MCM5.1	Tshirege 1A		53	1.09	17.06	55.51	
	30.73						
MCM5.1	Tshirege 1A	mod	54	1.16	17.06	16.03	45.40
	37.58	1.50e-04	-3.824	1.83093	0.00868	0.0349	2.19e-12
	6.91e-05	6.53e+03	-6.53e+03	-8.18e+03			
MCM5.1	Tshirege 1A		55.5				
MCM5.1	Tshirege 1A		57.5	1.09	16.15	55.51	
	29.09						
MCM5.1	Tshirege 1A	mod	58	1.18	16.15	3.98	52.00
	31.06	1.80e-04	-3.745	1.63014	0.00946	0.2535	1.14e-08
	3.58e-01	9.17e+02	-9.17e+02	-2.68e+03			
MCM5.1	Tshirege 1A		63	0.91	14.40	62.86	
	22.91						
MCM5.1	Tshirege 1A	mod	64	1.17	14.40	5.86	53.20
	27.07	1.30e-04	-3.886	1.64746	0.01255	0.1803	1.41e-09
	4.44e-02	1.11e+03	-1.11e+03	-3.06e+03			
MCM5.1	Tshirege 1A		65.5	1.20	19.20	51.02	
	37.63						
MCM5.1	Tshirege 1A	mod	67.5	1.15	20.15	3.25	52.00

	38.75	1.10e-04	-3.959	1.61352	0.00887	0.3466	3.70e-08
	1.17e+00	6.10e+02	-6.10e+02	-2.67e+03			
MCM5.1	Tshirege 1A		68	1.23	20.15	49.80	
	40.46						
MCM5.1	Tshirege 1A		70.5				
MCM5.1	Tshirege 1A	mod	72.5	1.19	20.34	0.33	51.50
	39.50	1.40e-04	-3.854	1.46775	0.01090	0.3911	2.55e-08
	8.03e-01	6.58e+02	-6.58e+02	-2.87e+03			
MCM5.1	Tshirege 1A		73	1.09	20.34	55.51	
	36.64						
MCM5.1	Tshirege 1A		75.5	1.18	21.67	51.84	
	41.80						
MCM5.1	Tshirege 1A		78	1.20	22.82	51.02	
	44.73						
MCM5.1	Tshirege 1A		80.5	1.22	23.22	50.20	
	46.25						
MCM5.1	Tshirege 1A	mod	82.5	1.20	25.05	6.91	58.90
	42.53	1.20e-04	-3.921	1.27844	0.01353	0.3489	2.14e-10
	6.74e-03	3.22e+03	-3.22e+03	-5.74e+03			
MCM5.1	Tshirege 1A		83	1.18	25.05	51.84	
	48.32						
MCM5.1	Tshirege 1A		85.5	1.19	28.77	51.43	
	55.94						
MCM5.1	Tshirege 1A	mod	87.5	1.09	33.84	0.00	51.20
	66.09	1.10e-04	-3.959	1.41040	0.00975	0.6609	5.31e-07
	1.68e+01	2.31e+02	-2.31e+02	-2.90e+03			
MCM5.1	Tshirege 1A		88	1.13	33.84	53.88	
	62.81						
MCM5.1	Tshirege 1A		90.5	1.18	43.30	51.84	
	83.53						
MCM5.1	Tshirege 1A		92.5	1.24	43.75	49.39	
	88.58						
PC4	Tshirege 1A	non-mod	64	1.18	40.60	0.00	45.27
	89.68	9.70e-05	-4.013	1.54892	0.00394	0.8968	1.30e-05
	4.09e+02	1.31e+02	-1.31e+02	-2.08e+03			
PC4	Tshirege 1A	non-mod	79	1.22	3.67	41.09	
	3.00e-05	-4.523	1.78936	0.00566			
PC4	Tshirege 1A	non-mod	84	1.17	18.40	0.00	45.00
	40.89	3.50e-04	-3.456	1.39697	0.00793	0.4089	3.44e-08
	1.09e+00	1.16e+03	-1.16e+03	-3.72e+03			
SIMO-1	Tshirege 1A		22	1.19	9.80	55.14	

17.77

SIMO-1	Tshirege 1A	33	1.47	15.20	46.00	
	2.70e-04	-3.569 1.85590	0.00814			
SIMO-1	Tshirege 1A	41	1.17	12.70	56.04	
	22.66					
CDBM-1	Tsankawi	89	1.20	17.64	0.00	44.25
	39.86 2.30e-04	-3.638 1.42778	0.01311			0.3986 2.91e-08
	9.17e-01	6.33e+02	-6.33e+02	-3.35e+03		
CDBM-1	Tsankawi	94	1.05	10.45	1.58	50.25
	20.80 1.50e-03	-2.824 1.58521	0.01727			0.1823 8.68e-09
	2.74e-01	1.05e+03	-1.05e+03	-3.92e+03		
MCC5.9A	Tsankawi	105	1.27	55.75		53.70
	2.00e-03	-2.699				
MCC5.9A	Tsankawi	105	0.92	55.75		62.41
	89.33					
MCC5.9A	Tsankawi	109.5	0.90	44.46		63.21
	70.34					
MCC5.9A	Tsankawi	109.5	1.01	44.46	0.00	64.60
	68.82 4.30e-03	-2.367 1.30103	0.00647			0.6882 8.93e-06
	2.82e+02	4.51e+02	-4.51e+02	-3.79e+03		
MCM5.1	Tsankawi	93	1.32	43.75	0.00	44.00
	99.43 4.70e-05	-4.328 1.33526	0.00238			0.9943 1.77e-05
	5.59e+02	2.49e+01	-2.49e+01	-2.86e+03		
MCM5.1	Tsankawi	95	1.08	48.53	0.23	65.60
	73.98 6.80e-04	-3.167 1.10570	0.02432			0.7389 9.88e-09
	3.12e-01	6.93e+02	-6.93e+02	-3.59e+03		
MCM5.1	Tsankawi	97.5	1.37	36.85	0.00	42.34
	87.03 5.80e-05	-4.237 1.60085	0.00046			0.8703 6.87e-06
	2.17e+02	1.32e+03	-1.32e+03	-4.29e+03		
MCM5.1	Tsankawi	98	1.42	36.85		42.04
	87.65					
MCM5.1	Tsankawi	98.5	1.32	33.06		46.12
	71.68					
MCM5.1	Tsankawi	103	1.27	22.43		48.16
	46.57					
MCM5.1	Tsankawi	107.5	1.46	24.30	7.28	47.80
	50.84 1.30e-03	-2.886 1.33526	0.05128			0.4200 5.43e-08
	1.71e+00	2.53e+02	-2.53e+02	-3.53e+03		
MCM5.1	Tsankawi	108	1.29	24.30		47.35
	51.32					
MCM5.1	Tsankawi	110.5	1.60	17.01		34.69
	49.03					

PC4	Tsankawi	89	1.29	18.40	5.15	38.85	
	47.36	1.60e-04	-3.796	1.88974	0.00491	0.3932	4.56e-07
	1.44e+01	5.38e+02	-5.38e+02	-3.25e+03			
PC4	Tsankawi	104	1.34	7.60	1.00	36.69	
	20.71	2.50e-03	-2.602	1.74821	0.04961	0.1849	7.48e-08
	2.36e+00	1.90e+02	-1.90e+02	-3.36e+03			
SIMO-1	Tsankawi	51	1.55	5.10		41.30	
	12.35						
SIMO-1	Tsankawi	54	1.01	9.50		61.86	
	15.36						
SIMO-1	Tsankawi	64	1.33	4.80		49.87	
	9.63						
AB-7	Otowi	70	1.24	17.50	13.70	46.00	38.04
	1.70e-04	-3.770	2.05814	0.00447	0.1176	3.76e-09	
	1.19e-01	1.68e+03	-1.68e+03	-3.81e+03			
AB-7	Otowi	80	1.10	19.90	13.40	46.20	43.07
	2.20e-04	-3.658	2.13599	0.00369	0.1982	6.44e-08	
	2.03e+00	1.10e+03	-1.10e+03	-3.54e+03			
CDBM-1	Otowi	104	1.20	15.09	0.00	44.58	33.85
	2.30e-04	-3.638	1.48939	0.00639	0.3385	2.03e-08	
	6.40e-01	1.40e+03	-1.40e+03	-4.57e+03			
CDBM-1	Otowi	114	1.29	15.59	2.53	45.06	34.60
	1.60e-04	-3.796	1.77773	0.00449	0.3070	7.98e-08	
	2.52e+00	9.77e+02	-9.77e+02	-4.45e+03			
CDBM-1	Otowi	124	1.10	10.96	0.00	43.73	25.06
	2.90e-04	-3.538	1.44737	0.00825	0.2506	1.81e-09	
	5.70e-02	2.65e+03	-2.65e+03	-6.43e+03			
CDBM-1	Otowi	134	1.24	11.73	1.24	44.70	26.24
	1.60e-04	-3.796	1.64582	0.00567	0.2414	8.78e-09	
	2.77e-01	1.57e+03	-1.57e+03	-5.65e+03			
CDBM-1	Otowi	144	1.14	10.24	4.16	42.84	23.90
	4.20e-04	-3.377	2.30673	0.00545	0.1572	7.92e-08	
	2.50e+00	7.43e+02	-7.43e+02	-5.13e+03			
CDBM-1	Otowi	154	1.29	11.10	2.74	41.03	27.05
	1.00e-04	-4.000	1.88968	0.00393	0.2184	1.65e-08	
	5.21e-01	1.38e+03	-1.38e+03	-6.07e+03			
CDBM-1	Otowi	164	1.21	10.56	0.00	43.56	24.24
	1.70e-04	-3.770	1.48492	0.00608	0.2424	1.53e-09	
	4.84e-02	3.03e+03	-3.03e+03	-8.03e+03			
CDBM-1	Otowi	174	1.18	10.07	2.99	41.22	24.43
	2.10e-04	-3.678	1.89684	0.00531	0.1851	1.63e-08	
	5.15e-01	1.22e+03	-1.22e+03	-6.52e+03			
CDBM-1	Otowi	184	1.18	9.26	2.57	43.23	21.42
	3.00e-04	-3.523	1.89404	0.00618	0.1646	1.31e-08	
	4.15e-01	1.20e+03	-1.20e+03	-6.81e+03			
CDBM-1	Otowi	189	1.19	9.42	0.83	43.00	21.91
	1.80e-04	-3.745	1.64791	0.00568	0.2038	3.89e-09	
	1.23e-01	2.03e+03	-2.03e+03	-7.79e+03			
CDBM-2	Otowi	67	1.16	11.65	1.65	44.56	26.14

		5.00e-04	-3.301	1.59775	0.00841	0.2330	1.42e-08
		4.48e-01	1.34e+03	-1.34e+03	-3.38e+03		
CDBM-2	Otowi		68	1.22	12.26	3.85	43.97 27.88
		2.70e-04	-3.569	1.98716	0.00595	0.2095	5.77e-08
		1.82e+00	8.01e+02	-8.01e+02	-2.87e+03		
MCC5.9A	Otowi		120	1.08	23.18		55.73 41.59
MCC5.9A	Otowi		120	1.11	23.18	0.00	43.50 53.29
		7.90e-04	-3.102	1.38806	0.01854	0.5329	5.40e-07
		1.70e+01	2.52e+02	-2.52e+02	-3.91e+03		
MCC5.9A	Otowi		125	1.11	17.93		54.61 32.83
MCC5.9A	Otowi		125	1.04	17.93	2.53	53.80 33.33
		2.80e-04	-3.553	1.51229	0.00685	0.3004	1.48e-08
		4.67e-01	1.50e+03	-1.50e+03	-5.31e+03		
MCC5.9A	Otowi		130	1.15	19.49	6.46	51.90 37.55
		7.80e-03	-2.108	1.82902	0.00560	0.2867	3.59e-06
		1.13e+02	7.78e+02	-7.78e+02	-4.74e+03		
MCC5.9A	Otowi		130	1.05	19.49		56.99 34.20
MCC5.9A	Otowi		135				
MCC5.9A	Otowi		140				
MCC5.9A	Otowi		145				
MCC5.9A	Otowi		150	1.16	22.10		52.49 42.10
MCC5.9A	Otowi		150	1.30	22.10	2.83	53.80 41.08
		1.70e-03	-2.770	1.51211	0.00691	0.3781	3.99e-07
		1.26e+01	9.30e+02	-9.30e+02	-5.50e+03		
MCC5.9A	Otowi		155	1.24	21.67		49.24 44.01
MCC5.9A	Otowi		165	1.20	21.23	12.03	48.60 43.68
		2.90e-04	-3.538	1.68230	0.00501	0.2516	2.71e-08
		8.55e-01	1.48e+03	-1.48e+03	-6.51e+03		
MCC5.9A	Otowi		165	1.26	21.23		48.48 43.79
MCC5.9A	Otowi		170				
MCC5.9A	Otowi		175				
MCC5.9A	Otowi		180				
MCC5.9A	Otowi		185				
PC4	Otowi		109	1.16	66.00	1.51	41.98 157.22
		3.90e-04	-3.409	1.73330	0.00736	1.6078	4.95e-04
		1.56e+04	0.00e+00	0.00e+00	-3.32e+03		
PC4	Otowi		118.5	1.12	13.20	2.24	40.79 32.36
		3.30e-04	-3.481	1.84786	0.00503	0.2843	1.60e-07
		5.04e+00	8.45e+02	-8.45e+02	-4.46e+03		
PC4	Otowi		149	1.22	15.10	2.83	40.29 37.48
		7.50e-05	-4.125	1.70979	0.00452	0.3275	3.56e-08

	1.12e+00	1.02e+03	-1.02e+03	-5.56e+03			
PC4	Otowi	168.5	1.15	12.40	0.87	43.75	28.34
	4.30e-04	-3.367	1.65338		0.00619	0.2688	4.61e-08
	1.46e+00	1.18e+03	-1.18e+03	-6.32e+03			
SIMO-1	Otowi	71	1.49	3.10		43.60	7.11
SIMO-1	Otowi	86	0.98	13.30	15.90	59.00	22.54
	2.00e-04	-3.699	1.85470		0.01398	-0.0603	3.40e+38
	3.40e+38	0.00e+00	0.00e+00	-2.62e+03			
SIMO-1	Otowi	90	1.30	24.40	26.20	50.10	48.70
	1.10e-05	-4.959	1.89216		0.00381	-0.0753	3.40e+38
	3.40e+38	0.00e+00	0.00e+00	-2.74e+03			

Sample No.	Unit	Weld/Orig	Lith	Depth (ft)	Dry Bulk Density			
(g/cm ³)	Theta	f _q	Theta res	f _q /dr	Porosity			
Saturation (%)	K _{dsat}	(cm/sec)	log K _{dsat}	(cm/sec)	N			
Alpha	f _a	(cm ⁻¹)	Effect Sat	Insitu K	(cm/sec)			
Insitu K	(cm/yr)	Suction	(cm)	-Suction	(cm)	Head	(cm)	
CDBM-1	Tshirege 1A	mod	24	1.17	2.67	0.00	48.82	
	5.47	6.20e-05	-4.208	1.93923	0.00294	0.0547	2.09e-11	
	6.60e-04	7.50e+03	-7.50e+03	-8.23e+03				
CDBM-1	Tshirege 1A	mod	34	1.07	5.85	0.00	46.18	
	12.67	2.20e-04	-3.658	1.63394	0.00547	0.1267	2.80e-10	
	8.84e-03	4.74e+03	-4.74e+03	-5.78e+03				
CDBM-1	Tshirege 1A	mod	44	1.26	9.27	0.00	44.53	
	20.82	7.00e-05	-4.155	1.68241	0.00406	0.2082	2.32e-09	
	7.32e-02	2.43e+03	-2.43e+03	-3.77e+03				
CDBM-1	Tshirege 1A	non-mod	54	1.09	8.95	0.00	44.60	
	20.07	4.60e-04	-3.337	1.51856	0.00701	0.2007	1.99e-09	
	6.27e-02	3.14e+03	-3.14e+03	-4.78e+03				
CDBM-1	Tshirege 1A	non-mod	64	1.23	11.25	0.53	45.12	
	24.93	1.20e-04	-3.921	1.72354	0.00531	0.2405	1.19e-08	
	3.76e-01	1.32e+03	-1.32e+03	-3.27e+03				
CDBM-1	Tsankawi		89	1.20	17.64	0.00	44.25	
	39.86	2.30e-04	-3.638	1.42778	0.01311	0.3986	2.91e-08	
	9.17e-01	6.33e+02	-6.33e+02	-3.35e+03				
CDBM-1	Tsankawi		94	1.05	10.45	1.58	50.25	
	20.80	1.50e-03	-2.824	1.58521	0.01727	0.1823	8.68e-09	
	2.74e-01	1.05e+03	-1.05e+03	-3.92e+03				
CDBM-1	Otowi		104	1.20	15.09	0.00	44.58	33.85
	2.30e-04	-3.638	1.48939	0.00639	0.3385	2.03e-08		
	6.40e-01	1.40e+03	-1.40e+03	-4.57e+03				
CDBM-1	Otowi		114	1.29	15.59	2.53	45.06	34.60
	1.60e-04	-3.796	1.77773	0.00449	0.3070	7.98e-08		
	2.52e+00	9.77e+02	-9.77e+02	-4.45e+03				
CDBM-1	Otowi		124	1.10	10.96	0.00	43.73	25.06
	2.90e-04	-3.538	1.44737	0.00825	0.2506	1.81e-09		
	5.70e-02	2.65e+03	-2.65e+03	-6.43e+03				
CDBM-1	Otowi		134	1.24	11.73	1.24	44.70	26.24
	1.60e-04	-3.796	1.64582	0.00567	0.2414	8.78e-09		
	2.77e-01	1.57e+03	-1.57e+03	-5.65e+03				
CDBM-1	Otowi		144	1.14	10.24	4.16	42.84	23.90
	4.20e-04	-3.377	2.30673	0.00545	0.1572	7.92e-08		
	2.50e+00	7.43e+02	-7.43e+02	-5.13e+03				
CDBM-1	Otowi		154	1.29	11.10	2.74	41.03	27.05
	1.00e-04	-4.000	1.88968	0.00393	0.2184	1.65e-08		
	5.21e-01	1.38e+03	-1.38e+03	-6.07e+03				
CDBM-1	Otowi		164	1.21	10.56	0.00	43.56	24.24
	1.70e-04	-3.770	1.48492	0.00608	0.2424	1.53e-09		
	4.84e-02	3.03e+03	-3.03e+03	-8.03e+03				
CDBM-1	Otowi		174	1.18	10.07	2.99	41.22	24.43
	2.10e-04	-3.678	1.89684	0.00531	0.1851	1.63e-08		
	5.15e-01	1.22e+03	-1.22e+03	-6.52e+03				
CDBM-1	Otowi		184	1.18	9.26	2.57	43.23	21.42
	3.00e-04	-3.523	1.89404	0.00618	0.1646	1.31e-08		
	4.15e-01	1.20e+03	-1.20e+03	-6.81e+03				
CDBM-1	Otowi		189	1.19	9.42	0.83	43.00	21.91

12.35

SIMO-1	Tsankawi		54	1.01	9.50		61.86
							15.36
SIMO-1	Tsankawi		64	1.33	4.80		49.87
							9.63
SIMO-1	Otowi		71	1.49	3.10		43.60 7.11
SIMO-1	Otowi		86	0.98	13.30	15.90	59.00 22.54
							2.00e-04 -3.699 1.85470 0.01398 -0.0603 3.40e+38
							3.40e+38 0.00e+00 0.00e+00 -2.62e+03
SIMO-1	Otowi		90	1.30	24.40	26.20	50.10 48.70
							1.10e-05 -4.959 1.89216 0.00381 -0.0753 3.40e+38
							3.40e+38 0.00e+00 0.00e+00 -2.74e+03
PC4	Alluvium		4	1.61	22.60	0.00	34.62
							65.28 8.20e-04 -3.086 1.27745 0.07114 0.6528 6.92e-07
							2.18e+01 5.81e+01 -5.81e+01 -1.80e+02
PC4	Alluvium		9	1.20	26.00	7.63	46.49
							55.93 6.50e-05 -4.187 1.83837 0.00584 0.4728 3.90e-07
							1.23e+01 3.72e+02 -3.72e+02 -6.47e+02
PC4	Weathered 1A	weathered	14	1.19	24.50	6.57	
							42.95 57.04 4.30e-05 -4.367 1.86178 0.00645 0.4929
							3.46e-07 1.09e+01 3.09e+02 -3.09e+02
							-7.36e+02
PC4	Weathered 1A	weathered	29	1.49	24.20	0.00	
							38.21 63.33 2.50e-05 -4.602 1.24908 0.02327 0.6333
							8.82e-09 2.78e-01 2.47e+02 -2.47e+02
							-1.13e+03
PC4	Weathered 1A	weathered	59	1.29	44.00	8.58	
							48.97 89.85 2.20e-05 -4.658 1.71086 0.00428 0.8769
							3.61e-06 1.14e+02 1.31e+02 -1.31e+02
							-1.93e+03
PC4s	Tshirege 1A	spoc	64	1.09		2.67	44.72
							3.60e-04 -3.444 1.73542 0.00680
PC4	Tshirege 1A	non-mod	64	1.18	40.60	0.00	45.27
							89.68 9.70e-05 -4.013 1.54892 0.00394 0.8968 1.30e-05
							4.09e+02 1.31e+02 -1.31e+02 -2.08e+03
PC4sd	Tshirege 1A	spoc	78.5	1.26		13.83	56.23
							3.30e-05 -4.481 2.18437 0.00295
PC4s	Tshirege 1A	spoc	78.5	1.05		4.63	42.72
							7.10e-05 -4.149 1.96040 0.00293
PC4s	Tshirege 1A	spoc/non-mod	79	1.22		1.85	
							41.09 3.00e-05 -4.523 1.66365 0.00611
PC4s	Tshirege 1A	spoc	84	1.14		3.77	42.73
							5.60e-04 -3.252 1.77490 0.00503

PC4	Tshirege 1A	non-mod	84	1.17	18.40	0.00	45.00
	40.89	3.50e-04	-3.456	1.39697		0.00793	0.4089 3.44e-08
	1.09e+00	1.16e+03	-1.16e+03	-3.72e+03			
PC4s	Tsankawi	spoc	88.5	1.27		3.71	43.49
	5.30e-04	-3.276	1.53778		0.00749		
PC4	Tsankawi		89	1.29	18.40	5.15	38.85
	47.36	1.60e-04	-3.796	1.88974		0.00491	0.3932 4.56e-07
	1.44e+01	5.38e+02	-5.38e+02	-3.25e+03			
PC4	Tsankawi		104	1.34	7.60	1.00	36.69
	20.71	2.50e-03	-2.602	1.74821		0.04961	0.1849 7.48e-08
	2.36e+00	1.90e+02	-1.90e+02	-3.36e+03			
PC4	Otowi		109	1.16	66.00	1.51	41.98 157.22
	3.90e-04	-3.409	1.73330		0.00736		1.6078 4.95e-04
	1.56e+04	0.00e+00	0.00e+00	-3.32e+03			
PC4s	Otowi	spoc	118.5	1.17		2.80	44.53
	1.40e-03	-2.854	1.79177		0.00453		
PC4	Otowi		118.5	1.12	13.20	2.24	40.79 32.36
	3.30e-04	-3.481	1.84786		0.00503		0.2843 1.60e-07
	5.04e+00	8.45e+02	-8.45e+02	-4.46e+03			
PC4s	Otowi	spoc	119	1.17		12.42	49.27
	1.80e-04	-3.745	1.92284		0.00399		
PC4s	Otowi	spoc	148.5	1.20		4.34	40.74
	9.40e-05	-4.027	1.83252		0.00453		
PC4	Otowi		149	1.22	15.10	2.83	40.29 37.48
	7.50e-05	-4.125	1.70979		0.00452		0.3275 3.56e-08
	1.12e+00	1.02e+03	-1.02e+03	-5.56e+03			
PC4s	Otowi	spoc	149	1.15		9.02	47.71
	9.40e-05	-4.027	1.77240		0.00461		
PC4	Otowi		168.5	1.15	12.40	0.87	43.75 28.34
	4.30e-04	-3.367	1.65338		0.00619		0.2688 4.61e-08
	1.46e+00	1.18e+03	-1.18e+03	-6.32e+03			
MCM5.1	Alluvium		4	1.34	6.53		45.31
	14.41						
MCM5.1	Alluvium		8	1.40	8.29		42.86
	19.34						
MCM5.1	Alluvium		13.5	1.40	8.13		42.86
	18.97						
MCM5.1	Alluvium		18	1.36	21.57		44.49
	48.48						
MCM5.1	Alluvium		22.5	1.25	25.67		48.98
	52.41						
MCM5.1	Alluvium		28	1.44	41.78		41.22

	100.00								
MCM5.1	Caved Alluvium		34	1.75	28.45		28.57		
	99.58								
MCM5.1	Tshirege 1A		43	1.19	24.06		51.43		
	46.78								
MCM5.1	Tshirege 1A weathered		43.5	1.16	24.06	5.31			
	52.10	46.18	2.00e-04	-3.699	1.66065	0.00717	0.4008		
	2.15e-07	6.79e+00	5.22e+02	-5.22e+02					
	-1.85e+03								
MCM5.1	Tshirege 1A		46.5	0.99	15.09		59.59		
	25.32								
MCM5.1	Tshirege 1A		50.5						
MCM5.1	Tshirege 1A		53	1.09	17.06		55.51		
	30.73								
MCM5.1	Tshirege 1A mod		54	1.16	17.06	16.03	45.40	37.58	1.50e-04
	-3.824	1.83093	0.00868	0.0349	2.19e-12		6.91e-05		
	6.53e+03	-6.53e+03	-8.18e+03						
MCM5.1	Tshirege 1A		55.5						
MCM5.1	Tshirege 1A		57.5	1.09	16.15		55.51		
	29.09								
MCM5.1	Tshirege 1A mod		58	1.18	16.15	3.98	52.00		
	31.06	1.80e-04	-3.745	1.63014	0.00946	0.2535	1.14e-08		
	3.58e-01	9.17e+02	-9.17e+02	-2.68e+03					
MCM5.1	Tshirege 1A		63	0.91	14.40		62.86		
	22.91								
MCM5.1	Tshirege 1A mod		64	1.17	14.40	5.86	53.20		
	27.07	1.30e-04	-3.886	1.64746	0.01255	0.1803	1.41e-09		
	4.44e-02	1.11e+03	-1.11e+03	-3.06e+03					
MCM5.1	Tshirege 1A		65.5	1.20	19.20		51.02		
	37.63								
MCM5.1	Tshirege 1A mod		67.5	1.15	20.15	3.25	52.00		
	38.75	1.10e-04	-3.959	1.61352	0.00887	0.3466	3.70e-08		
	1.17e+00	6.10e+02	-6.10e+02	-2.67e+03					
MCM5.1	Tshirege 1A		68	1.23	20.15		49.80		
	40.46								
MCM5.1	Tshirege 1A		70.5						
MCM5.1	Tshirege 1A mod		72.5	1.19	20.34	0.33	51.50		
	39.50	1.40e-04	-3.854	1.46775	0.01090	0.3911	2.55e-08		

MCM5.1	8.03e-01	6.58e+02	-6.58e+02	-2.87e+03			
	Tshirege 1A		73	1.09	20.34	55.51	
	36.64						
MCM5.1			75.5	1.18	21.67	51.84	
	Tshirege 1A						
	41.80						
MCM5.1			78	1.20	22.82	51.02	
	Tshirege 1A						
	44.73						
MCM5.1			80.5	1.22	23.22	50.20	
	Tshirege 1A						
	46.25						
MCM5.1			82.5	1.20	25.05	6.91	58.90
	Tshirege 1A mod						
	42.53	1.20e-04	-3.921	1.27844	0.01353	0.3489	2.14e-10
	6.74e-03	3.22e+03	-3.22e+03	-5.74e+03			
MCM5.1			83	1.18	25.05	51.84	
	Tshirege 1A						
	48.32						
MCM5.1			85.5	1.19	28.77	51.43	
	Tshirege 1A						
	55.94						
MCM5.1			87.5	1.09	33.84	0.00	51.20
	Tshirege 1A mod						
	66.09	1.10e-04	-3.959	1.41040	0.00975	0.6609	5.31e-07
	1.68e+01	2.31e+02	-2.31e+02	-2.90e+03			
MCM5.1			88	1.13	33.84	53.88	
	Tshirege 1A						
	62.81						
MCM5.1			90.5	1.18	43.30	51.84	
	Tshirege 1A						
	83.53						
MCM5.1			92.5	1.24	43.75	49.39	
	Tshirege 1A						
	88.58						
MCM5.1			93	1.32	43.75	0.00	44.00
	Tsankawi						
	99.43	4.70e-05	-4.328	1.33526	0.00238	0.9943	1.77e-05
	5.59e+02	2.49e+01	-2.49e+01	-2.86e+03			
MCM5.1			95	1.08	48.53	0.23	65.60
	Tsankawi						
	73.98	6.80e-04	-3.167	1.10570	0.02432	0.7389	9.88e-09
	3.12e-01	6.93e+02	-6.93e+02	-3.59e+03			
MCM5.1			97.5	1.37	36.85	0.00	42.34
	Tsankawi						
	87.03	5.80e-05	-4.237	1.60085	0.00046	0.8703	6.87e-06
	2.17e+02	1.32e+03	-1.32e+03	-4.29e+03			
MCM5.1			98	1.42	36.85	42.04	
	Tsankawi						
	87.65						
MCM5.1			98.5	1.32	33.06	46.12	
	Tsankawi						
	71.68						
MCM5.1			103	1.27	22.43	48.16	
	Tsankawi						
	46.57						
MCM5.1			107.5	1.46	24.30	7.28	47.80
	Tsankawi						
	50.84	1.30e-03	-2.886	1.33526	0.05128	0.4200	5.43e-08

MCM5.1	Tsankawi	1.71e+00	2.53e+02	-2.53e+02	-3.53e+03	108	1.29	24.30	47.35
		51.32							
MCM5.1	Tsankawi			110.5	1.60	17.01		34.69	
		49.03							
MCC5.9A	Tshirege 1A			85	1.00	38.91		59.33	
		65.58							
MCC5.9A	Tshirege 1A			86	1.09	38.79		55.50	
		69.89							
MCC5.9A	Tshirege 1A	non	86	1.08	38.79	0.00	68.60		
		56.55	3.90e-03	-2.409	1.15173	0.23119	0.5655	8.97e-09	
		2.83e-01	1.83e+02	-1.83e+02	-2.80e+03				
MCC5.9A	Tshirege 1A		90	0.95	42.21		61.04		
		69.15							
MCC5.9A	Tshirege 1A	non	95	1.35	17.22	5.17	49.80		
		34.58	1.10e-03	-2.959	1.25778	0.08649	0.2700	6.80e-11	
		2.15e-03	1.85e+03	-1.85e+03	-4.75e+03				
MCC5.9A	Tshirege 1A		95	1.52	17.22		38.14		
		45.15							
MCC5.9A	Tsankawi		105	1.27	55.75		53.70		
		2.00e-03	-2.699						
MCC5.9A	Tsankawi		105	0.92	55.75		62.41		
		89.33							
MCC5.9A	Tsankawi		109.5	1.01	44.46	0.00	64.60		
		68.82	4.30e-03	-2.367	1.30103	0.00647	0.6882	8.93e-06	
		2.82e+02	4.51e+02	-4.51e+02	-3.79e+03				
MCC5.9A	Tsankawi		109.5	0.90	44.46		63.21		
		70.34							
MCC5.9A	Otowi		120	1.11	23.18	0.00	43.50	53.29	
		7.90e-04	-3.102	1.38806	0.01854	0.5329	5.40e-07		
		1.70e+01	2.52e+02	-2.52e+02	-3.91e+03				
MCC5.9A	Otowi		120	1.08	23.18		55.73	41.59	
MCC5.9A	Otowi		125	1.11	17.93		54.61	32.83	
MCC5.9A	Otowi		125	1.04	17.93	2.53	53.80	33.33	
		2.80e-04	-3.553	1.51229	0.00685	0.3004	1.48e-08		
		4.67e-01	1.50e+03	-1.50e+03	-5.31e+03				
MCC5.9A	Otowi		130	1.05	19.49		56.99	34.20	
MCC5.9A	Otowi		130	1.15	19.49	6.46	51.90	37.55	
		7.80e-03	-2.108	1.82902	0.00560	0.2867	3.59e-06		
		1.13e+02	7.78e+02	-7.78e+02	-4.74e+03				

MCC5.9A	Otowi	135						
MCC5.9A	Otowi	140						
MCC5.9A	Otowi	145						
MCC5.9A	Otowi	150	1.30	22.10	2.83	53.80	41.08	
		1.70e-03	-2.770	1.51211	0.00691	0.3781	3.99e-07	
		1.26e+01	9.30e+02	-9.30e+02	-5.50e+03			
MCC5.9A	Otowi	150	1.16	22.10		52.49	42.10	
MCC5.9A	Otowi	155	1.24	21.67		49.24	44.01	
MCC5.9A	Otowi	165	1.26	21.23		48.48	43.79	
MCC5.9A	Otowi	165	1.20	21.23	12.03	48.60	43.68	
		2.90e-04	-3.538	1.68230	0.00501	0.2516	2.71e-08	
		8.55e-01	1.48e+03	-1.48e+03	-6.51e+03			
MCC5.9A	Otowi	170						
MCC5.9A	Otowi	175						
MCC5.9A	Otowi	180						
MCC5.9A	Otowi	185						
TA-16 P-16	Tshirege 3D mod	8	1.25	35.36	7.89			
		51.80	68.26	1.58e-04	-3.801	2.87664	0.00251	0.6256
		1.56e-05	4.92e+02	4.06e+02	-4.06e+02			
		-6.49e+02						
TA-16 P-16	Tshirege 3D mod	12	1.26	18.74	10.99			
		56.10	33.40	2.84e-04	-3.547	1.42277	0.00277	0.1717
		7.36e-11	2.32e-03	2.33e+04	-2.33e+04			
		-2.36e+04						
TA-16 P-16	Tshirege 3D mod	17	1.27	22.21	15.47			
		54.90	40.46	2.78e-04	-3.556	1.69286	0.00134	0.1709
		3.46e-09	1.09e-01	9.48e+03	-9.48e+03			
		-1.00e+04						
TA-16 P-16	Tshirege 3D mod	22	1.25	19.95	12.31			
		56.20	35.50	2.00e-04	-3.699	2.96355	0.00152	0.1741
		1.92e-07	6.05e+00	1.56e+03	-1.56e+03			
		-2.23e+03						
TA-16 P-16	Tshirege 3D mod	26	1.38	19.19	9.62			
		52.00	36.90	9.18e-05	-4.037	1.69308	0.00212	0.2259
		5.17e-09	1.63e-01	3.97e+03	-3.97e+03			
		-4.77e+03						
TA-16 P-16	Tshirege 3D mod	36	1.61	23.42	9.13			
		42.80	54.72	2.25e-05	-4.648	2.39840	0.00109	0.4243
		2.93e-07	9.23e+00	1.52e+03	-1.52e+03			
		-2.62e+03						
TA-16 P-16	Tshirege 3C mod	43	1.62	36.75	11.44			
		42.30	86.88	8.57e-05	-4.067	1.28127	0.00182	0.8202

	9.03e-07	2.85e+01	7.41e+02	-7.41e+02			
	-2.05e+03						
TA-16 P-16 Tshirege 3C mod	62	1.70	19.64	6.01			
	36.40	53.96	5.15e-04	-3.288	1.75912	0.00277	0.4485
	1.72e-06	5.42e+01	9.43e+02	-9.43e+02			
	-2.83e+03						
TA-16 P-16 Tshirege 3C mod	76	1.57	23.12	0.00			
	41.60	55.58	2.28e-04	-3.642	1.38108	0.00517	0.5558
	2.01e-07	6.33e+00	8.24e+02	-8.24e+02			
	-3.14e+03						
TA-16 P-16 Tshirege 3C mod	81	1.80	20.10	4.00			
	34.60	58.09	4.41e-05	-4.356	1.51876	0.00113	0.5262
	9.67e-08	3.05e+00	2.74e+03	-2.74e+03			
	-5.21e+03						

8 LLC-85-14 Tshirege 2B dens-mod	30	1.37	1.30				
	0.00	44.10	2.95	4.20e-04	-3.377	1.89014	0.00600
	0.0295	5.06e-12	1.60e-04	8.73e+03	-8.73e+03		
	-9.65e+03						
5 LLC 85-15 Tshirege 2B dens-mod	10.5	1.46	4.00				
	3.82	46.40	8.62	1.60e-03	-2.796	2.04394	0.00599
	0.0043	1.55e-14	4.89e-07	3.06e+04	-3.06e+04		
	-3.09e+04						
2A LLC 86-22 Tshirege 2A dens-mod	54.5	1.26	2.50				
	1.98	51.00	4.90	8.20e-05	-4.086	2.23828	0.00368
	0.0106	1.91e-13	6.04e-06	1.06e+04	-1.06e+04		
	-1.23e+04						
2B LLC 86-22 Tshirege 2A dens-mod	54.5	1.26	1.30				
	0.00	48.30	2.69	2.50e-04	-3.602	1.93242	0.00450
	0.0269	2.97e-12	9.37e-05	1.07e+04	-1.07e+04		
	-1.24e+04						
7 LLC 86-22 Tshirege 2A dens-mod	65	1.27	1.30				
	0.00	48.70	2.67	1.40e-04	-3.854	2.34693	0.00257
	0.0267	2.48e-11	7.81e-04	5.73e+03	-5.73e+03		
	-7.71e+03						
1 LLC 86-22 Tshirege 1B mod	131.5	1.05	20.00	1.20			
	50.70	39.45	1.90e-05	-4.721	1.58555	0.00210	0.3798
	8.85e-09	2.79e-01	2.37e+03	-2.37e+03			
	-6.38e+03						
1B LLC 86-22 Tshirege 1B mod	131.5	1.05	20.00	4.37			
	50.80	39.37	2.70e-05	-4.569	1.70906	0.00205	0.3366
	1.48e-08	4.67e-01	2.17e+03	-2.17e+03			
	-6.18e+03						

TA-21:30 Tshirege 3
5.56e-06 -5.255

TA-21:12 Tshirege 3
8.33e-06 -5.079

TA-21:25 Tshirege 3
8.33e-06 -5.079

TA-21:17	Tshirege 3 2.22e-05	-4.654
TA-21:24	Tshirege 3 2.50e-05	-4.602
TA-21:26	Tshirege 3 2.50e-05	-4.602
TA-21:19	Tshirege 3 2.78e-05	-4.556
TA-21:15	Tshirege 3 3.06e-05	-4.514
TA-21:22	Tshirege 3 3.33e-05	-4.478
TA-21:18	Tshirege 3 3.61e-05	-4.442
TA-21:27	Tshirege 3 3.61e-05	-4.442
TA-21:14	Tshirege 3 3.89e-05	-4.410
TA-21:16	Tshirege 3 4.17e-05	-4.380
TA-21:29	Tshirege 3 4.17e-05	-4.380
TA-21:9	Tshirege 3 4.44e-05	-4.353
TA-21:13	Tshirege 3 5.00e-05	-4.301
TA-21:20	Tshirege 3 5.00e-05	-4.301
TA-21:28	Tshirege 3 5.28e-05	-4.277
TA-21:7	Tshirege 3 6.67e-05	-4.176
TA-21:10	Tshirege 3 8.06e-05	-4.094
TA-21:23	Tshirege 3 8.06e-05	-4.094

TA-21:21	Tshirege 3	8.61e-05	-4.065	
TA-21:11	Tshirege 3	9.44e-05	-4.025	
TA-21:8	Tshirege 3	1.03e-04	-3.987	
LLM 85-01	Tshirege 2B	39.60	30	35.27
		1.08e-04	-3.967	1.30474
				0.01536
LLM 85-01	Tshirege 2A	64.40	52	8.87
		2.64e-04	-3.578	1.19068
				0.03552
LLM 85-01	Tshirege 1B	62.10	101	35.80
		2.55e-04	-3.593	1.49238
				0.03945
LLM 85-01	Tshirege 1A	48.90	124	4.26
		2.25e-04	-3.648	1.29758
				0.04719
LLM 85-02	Tshirege 2B	41.50	7	0.00
		4.41e-04	-3.356	1.25516
				0.02745
LLM 85-02	Tshirege 2B	46.50	36	31.62
		1.17e-04	-3.932	1.64920
				0.14633
LLM 85-02	Tshirege 2A	43.30	67	15.98
		9.79e-05	-4.009	1.27051
				0.03658
LLM 85-02	Tshirege 1B	48.50	117	0.00
		1.66e-04	-3.780	1.22284
				0.01933
LLM 85-05	Tshirege 2B	52.60	15	0.00
		5.58e-04	-3.253	1.16725
				0.08670
LLM 85-05	Tshirege 2B	73.60	36	0.00
		2.23e-04	-3.652	1.58630
				0.00543
LLM 85-05	Tshirege 1B	74.20	76	0.00
		1.27e-04	-3.896	1.07979
				0.04930
LLM 85-05	Tshirege 1A	65.60	123	43.11
		1.57e-04	-3.804	1.35709
				0.41581

54-1002	Tshirege 1B	Tshirege 1v	122	1.23	3.20	0.00	
	49.50	6.46	4.60e-05	-4.337	1.77256	0.00313	0.0646
		7.74e-12	2.44e-04	4.90e+03	-4.90e+03		
				-8.62e+03			
54-1002	Tshirege 1B	Tshirege 1v	142.5	1.19	11.50	1.66	
	49.10	23.42	2.50e-05	-4.602	1.39251	0.01545	0.2073
		1.29e-11	4.06e-04	3.55e+03	-3.55e+03		
				-7.90e+03			
54-1002	Tshirege 1A	Tshirege 1g	179.3	1.16	6.60	0.00	
	39.30	16.79	6.50e-05	-4.187	1.81492	0.00429	0.1679
		1.92e-09	6.06e-02	2.06e+03	-2.06e+03		
				-7.52e+03			
54-1002	Tshirege 1A	Tshirege 1g	244	1.14	7.50	0.00	
	39.30	19.08	1.70e-04	-3.770	1.74483	0.00619	0.1908
		5.84e-09	1.84e-01	1.48e+03	-1.48e+03		
				-8.91e+03			
54-1003	Tshirege 2A	Tshirege 1v	102	1.22	1.50	0.00	
	51.00	2.94	1.30e-04	-3.886	1.73337	0.00295	0.0294
		2.30e-13	7.26e-06	4.15e+04	-4.15e+04		
				-4.46e+04			
54-1003	Tshirege 1B	Tshirege 1v	119.5	1.22	6.40		
	59.90		9.90e-05	-4.004			
54-1003	Tshirege 1A	Tshirege 1g	157	1.14	4.90	2.52	
	43.20	11.34	1.30e-04	-3.886	1.76458	0.00403	0.0584
		1.20e-11	3.78e-04	1.02e+04	-1.02e+04		
				-1.50e+04			
54-1003	Tshirege 1A	Tshirege 1g	207	1.18	8.00		
	42.80	18.69	1.50e-04	-3.824			
54-1003	Tshirege 1A	Tshirege 1g	261	1.11	9.60		
	48.80	19.67	2.70e-04	-3.569			
54-1003	Tshirege 1A	Tshirege 1g	271.5	1.31	12.10		
	41.00	29.51	2.60e-04	-3.585			
54-1006	Tshirege 2B	Tshirege 2	42	1.28	4.70	0.00	
	44.90	10.47	4.10e-04	-3.387	1.75998	0.00636	0.1047
		7.16e-10	2.26e-02	3.05e+03	-3.05e+03		
				-4.33e+03			
54-1006	Tshirege 2A	Tshirege 1v	76.9	1.28	0.64	0.00	
	44.50	1.44	9.80e-05	-4.009	1.87953	0.00295	0.0144
		3.45e-14	1.09e-06	4.21e+04	-4.21e+04		
				-4.45e+04			
54-1006	Tshirege 1B	Tshirege 1v	124.5	1.22	2.50	0.00	
	43.50	5.75	4.50e-05	-4.347	1.72065	0.00354	0.0575
		2.26e-12	7.12e-05	1.49e+04	-1.49e+04		
				-1.87e+04			
54-1006	Tshirege 1B	Tshirege 1v	136.7	1.28	6.30	0.00	
	47.20	13.35	5.70e-05	-4.244	2.08741	0.00143	0.1335

	2.50e-09	7.90e-02	4.41e+03	-4.41e+03			
	-8.58e+03						
54-1006	Tshirege 1A	Tshirege 1g	161	1.13	1.80	0.00	
	52.60	3.42	1.20e-04	-3.921	1.57913	0.00832	