GEOTECHNICAL AND HYDROGEOLOGICAL INVESTIGATION OF SITE A

APPENDICES

PROJECT NO. 30000

APPENDIX 1

BOREHOLE, TEST PIT, AUGER PROBE

AND MONITOR WELL RECORDS

APPENDIX 1a

BOREHOLE RECORDS

BOREHOLE RECORD

RD 1A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/05

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	NUMBER	RECOVERY mm	N-VALUE OR RQD %
0	100.51					
	100.1	ROOTMAT and TOPSOIL	SS	1	375	2
1		Stiff to hard reddish brown sandy clay: TILL (CL) - occasional cobbles and boulders	SS	2	225	8
2			SS	3	600	10
			SS	4	600	42
3			SS	5	400	16
			SS	6	475	28
4			SS	7	600	19
			SS	8	450	29
5			SS	9	600	26
6			SS	10	600	31
			SS	11	250	REF.
7			HQ	12	225	-
			HQ	13	0	-
	92.5		SS	14	75	REF.
8		Very severely to severely fractured pink MONZOGRANITE - highly altered and weathered - shearing throughout - frequent gouge and fault breccia throughout	HQ	15	100%	47%
			HQ	16	100%	0%
9			HQ	17	56%	22%
10						
			HQ	18	83%	34%
11			HQ	19	79%	35%
12						

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

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BOREHOLE RECORD

RD 1A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/05

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
12									
			+ + + + + +		HQ	20	50%	0%	
	87.5								
13		End of Borehole							
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 1B

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
BH SIZE H
DATES: BORING 96/02/05
WATER LEVEL 96/05/22
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES: TYPE	SAMPLES: NUMBER	SAMPLES: RECOVERY mm	SAMPLES: N-VALUE OR RQD %	PIEZOMETER
0	100.51	NOT SAMPLED - see borehole record RD 1A for soil profile.		▽					▽
4	96.2	End of Borehole							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80
WATER CONTENT & ATTERBERG LIMITS W_P W W_L
DYNAMIC PENETRATION TEST, BLOWS/0.3m ★
STANDARD PENETRATION TEST, BLOWS/0.3m ●
10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 2A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/07 to 96/02/08

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	97.18								
	96.6	ROOTMAT and TOPSOIL			SS	1	200	5	
1		Stiff to very stiff reddish brown sandy silty clay: TILL (CL-ML)							
2		- sand lens at 1.83m depth			SS	2	600	12	
		- sand lens at 2.49m depth			SS	3	400	29	
3	94.2								
		Very stiff to hard reddish brown sandy clay: TILL (CL)			SS	4	425	19	
4		- occasional cobbles							
		- 50mm sand seam at 3.35m depth			SS	5	450	30	
	92.3								
5		Very severely fractured to fractured grey MONZOGRANITE		▽	HQ	6	200	80%	▽
		- becoming pink and slightly altered below 7.3m			HQ	7	850	48%	
6					HQ	8	1275	62%	
7					HQ	9	375	0%	
					HQ	10	525	52%	
8	89.0								
		End of Borehole							
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 2B

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/07 96/02/08

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0		NOT SAMPLED - see borehole record RD 2A for soil profile.		▽					
4		End of Borehole							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 3

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/12 to 96/02/13

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	90.07								
		ROOTMAT and TOPSOIL			SS	1	300	2	
	89.3				SS	2	50	REF	
1		Severely fractured to fractured grey MONZOGRANITE - unaltered to slightly altered			HQ	3	88%	33%	
2					HQ	4	100%	33%	
3					HQ	5	100%	58%	
	86.2				HQ	6	100%	29%	
4		End of Borehole							
5									
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 4

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/12

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
0	87.50	surface elevation approximate							
0	87.32	ROOTMAT			~~SS~~	~~1~~	~~100~~	~~REF.~~	
1		Very severely fractured to moderately sound grey MONZOGRANITE - becoming pink and moderately altered to highly altered below 2.2m depth - possible shear zone from depth 3.4 to 5.9m			HQ	2	87%	54%	
2					HQ	3	100%	89%	
3					HQ	4	53%	19%	
4					HQ	5	0	0%	
5					~~SS~~	~~6~~	~~20~~	~~REF.~~	
5					HQ	7	38%	0%	
6									
7					HQ	8	100%	60%	
8									
9					HQ	9	74%	41%	
9	78.11	End of Borehole * monitor well destroyed							
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 5

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/01/09

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %
0	83.24					
	82.8	ROOTMAT and TOPSOIL	SS	1	300	6
	82.3	Compact brown silty sand: TILL (SM)				
1		Fractured to moderately sound grey MONZOGRANITE				
2			HQ	2	100%	89%
3			HQ	3	90%	73%
4		- 75mm soil seam at 4.29m depth	HQ	4	100%	77%
5						
6			HQ	5	100%	98%
			HQ	6	100%	75%
7	76.1		HQ	7	100%	73%
		End of Borehole				
8						
9						
10						
11						
12						

STRATA PLOT

WATER LEVEL

PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 6

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/08

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES: TYPE	NUMBER	RECOVERY (mm)	N-VALUE OR RQD %
0	69.43					
	69.1	ROOTMAT and TOPSOIL	SS	1	325	16
1		Compact to dense brown sand with silt and gravel: TILL (SM) - numerous cobbles and boulders				
2			SS	2	350	67
	66.7		SS	3	150	REF.
3		Severely fractured to fractured pink MONZOGRANITE - moderately altered	HQ	4	90%	47%
4			HQ	5	100%	77%
5			HQ	6	91%	60%
	63.5					
6		End of Borehole				
7						
8						
9						
10						
11						
12						

STRATA PLOT

WATER LEVEL

PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 7

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/27

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
	98.19						mm		
0	97.9	ROOTMAT and TOPSOIL			SS	1	580	20	
	97.3	Compact brown silty sand (SM)							
1		Stiff reddish brown silty clayey sand: TILL (SC-SM)			SS	2	530	13	
2					SS	3	550	9	
	95.5								
3		Very stiff reddish brown sandy clay: TILL (CL)			SS	4	480	19	
4	94.1				SS	5	100	14/150 mm	
		Very severely fractured to fractured grey MONZOGRANITE - moderately altered - evidence of shearing - frequent microfractures			HQ	6	100%	47%	
5									
6					HQ	7	100%	30%	
7					HQ	8	100%	23%	
	90.6								
8		End of Borehole							
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 8

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/21

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY (mm)	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	97.83								
		ROOTMAT and TOPSOIL			SS	1	450	2	
	97.1								
1		Very stiff reddish brown silty clayey sand: TILL (SC-SM)			SS	2	430	18	
	96.3				SS	3	220	PUSH	
2		Stiff to very stiff reddish brown sandy clay: TILL (CL)			SS	4	530	14	
					SS	5	400	32	
3					SS	6	430	71	
	93.9								
4		Very severely fractured pink MONZOGRANITE - slightly altered - highly weathered from 3.9 to 5.9m depth			SS	7	430	132	
					HQ	8	0	0%	
5					HQ	9	23%	0%	
6									
7					HQ	10	97%	47%	
	89.9								
8		End of Borehole							
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

132

BOREHOLE RECORD

RD 9A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/13 to 96/02/14

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	TYPE	NUMBER	RECOVERY	N-VALUE OR RQD %
	95.96				mm	
0	95.5	ROOTMAT and TOPSOIL	SS	1	530	1
	95.1	Compact reddish brown sandy silt: TILL (ML)	SS	2	430	15
1		Stiff to hard reddish brown sandy clay: TILL (CL) - occasional cobbles	SS	3	500	14
2			SS	4	380	18
3			SS	5	500	51
			SS	6	580	26
	92.0		SS	7	120	35/125 mm
4		Very severely fractured pink MONZOGRANITE - slightly altered	HQ	8	100%	50%
5			HQ	9	100%	52%
6						
7			HQ	10	100%	68%
			HQ	11	100%	40%
8			HQ	12	100%	50%
			HQ	13	100%	23%
9						
10			HQ	14	100%	95%
	85.4					
11		End of Borehole				
12						

UNDRAINED SHEAR STRENGTH - kPa (20, 40, 60, 80)

WATER CONTENT & ATTERBERG LIMITS (W_P, W, W_L)

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 9B

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/13 WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0		NOT SAMPLED - see borehole record RD 9A for soil profile.		▽					
3		End of Borehole							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

W_P W W_L

WATER CONTENT & ATTERBERG LIMITS

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 10A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/19 to 96/02/20

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	91.57								
	91.1	ROOTMAT and TOPSOIL			SS	1	350	2	
	90.7	Compact brown silty sand with gravel: TILL (SM)			SS	2	600	16	
1		Very stiff reddish brown sandy clay: TILL (CL)			SS	3	400	21	
2					SS	4	450	15	
	88.7				SS	5	270	12/150 mm	
3		Very severely fractured pink MONZOGRANITE - slightly to moderately altered			HQ	6	98%	0%	
4									
					HQ	7	100%	13%	
5	85.8				HQ	8	100%	0%	
6		End of Borehole							
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 10B

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/19 96/02/20 WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	91.57	NOT SAMPLED - see borehole record RD 10A for soil profile.		▽					
1									
2	89.6	End of Borehole							
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 11

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/16 to 96/02/19

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
	83.21								
0		ROOTMAT and TOPSOIL			SS	1	250	11	
	82.6								
	82.3	Very dense brown silty sand: TILL (SM)			SS	2	500	105	
1		Very severely fractured to fractured pink MONZOGRANITE - slightly altered			HQ	3	47%	0%	
					HQ	4	100%	0%	
2					HQ	5	59%	0%	
3					HQ	6	100%	100%	
					HQ	7	100%	0%	
4					HQ	8	100%	53%	
5					HQ	9	100%	36%	
6									
					HQ	10	98%	0%	
7	75.9								
		End of Borehole							
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

105

BOREHOLE RECORD

RD 12

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/15

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
	78.90						mm		
0		ROOTMAT and TOPSOIL			SS	1	230	3	
	78.3								
	78.0	Very dense brown silty sand: TILL (SM)			SS	2	410	REF.	
1		Severely fractured to fractured grey MONZOGRANITE - slightly altered			HQ	3	89%	44%	
2					HQ	4	98%	74%	
3									
4					HQ	5	100%	49%	
5					HQ	6	100%	45%	
	73.1								
6		End of Borehole							
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 13A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/21

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
	95.16						mm		
0	94.7	ROOTMAT and TOPSOIL			SS	1	510	2	
	94.3	Loose brown sandy silt: TILL (ML)			SS	2	610	9	
1		Stiff to very stiff reddish brown sandy clay: TILL (CL)			SS	3	380	8	
2		- 2mm sand seam at 2.34m depth			SS	4	610	19	
	92.4				SS	5	280	55/125 mm	
3		Fractured pink MONZOGRANITE - slightly altered			HQ	6	100%	41%	
4									
5					HQ	7	100%	61%	
	89.4								
6		End of Borehole							
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 13B

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE H

DATES: BORING 96/02/21 WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0		NOT SAMPLED - see borehole record RD 13A for soil profile.							
2.5		End of Borehole							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

0 1 2 3 4 5 6 7 8 9 10 11 12

BOREHOLE RECORD

RD 14A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
BH SIZE B
DATES: BORING 96/04/11 to 96/04/12
WATER LEVEL *96/05/22
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	TYPE	NUMBER	RECOVERY mm	N-VALUE OR RQD %
0	103.23					
		ROOTMAT and TOPSOIL	SS	1	30	43
	102.4					
1		Loose to dense brown silty sand to silty clayey sand with gravel: TILL (SC-SM)	SS	2	50	11
			SS	3	100	7
2	100.6					
3		Very stiff to hard reddish brown sandy clay with gravel: TILL (CL) - some cobbles - 100mm sand layer at 7.67m depth	SS	4	330	16
			SS	5	530	28
4						
5			SS	6	510	30
6						
			SS	7	330	33
7						
8			SS	8	510	32
9						
			SS	9	460	31
10						
11	92.0		SS	10	510	160
		Very severely fractured to fractured pink	BQ	11	23%	0%
12						

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80
WATER CONTENT & ATTERBERG LIMITS W_P W W_L
DYNAMIC PENETRATION TEST, BLOWS/0.3m ★
STANDARD PENETRATION TEST, BLOWS/0.3m ●
10 20 30 40 50 60 70 80 90

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BOREHOLE RECORD

RD 14A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/11 to 96/04/12

WATER LEVEL *96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
12		MONZOGRANITE - moderately altered			BQ	12	95%	62%	
13	89.5								
14		End of Borehole * artesian							
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 14B

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
BH SIZE B
DATES: BORING 96/04/11 96/04/12
WATER LEVEL 96/05/22
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	103.23	NOT SAMPLED - see borehole record RD 14A for soil profile.		▽					▽
6	97.2	End of Borehole							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80
WATER CONTENT & ATTERBERG LIMITS W_P W W_L
DYNAMIC PENETRATION TEST, BLOWS/0.3m ★
STANDARD PENETRATION TEST, BLOWS/0.3m ●
10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 15A

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/04/12

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
	95.54						mm		
0		ROOTMAT and TOPSOIL			SS	1	360	25	
	94.9								
	94.8	Compact reddish brown sandy silt: TILL (ML)			SS	2	430	15	
1		Very stiff reddish brown sandy clay with gravel: TILL (CL)			SS	3	410	30	
2									
	92.5				SS	4	130	REF	
3		Severely fractured pink MONZOGRANITE - moderately altered			NQ	5	90%	44%	
4									
5					NQ	6	100%	43%	
6									
	89.1				NQ	7	100%	100%	
		End of Borehole							
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 15B

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/04/12

WATER LEVEL

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES: TYPE	SAMPLES: NUMBER	SAMPLES: RECOVERY (mm)	SAMPLES: N-VALUE OR RQD %	PIEZOMETER
0		NOT SAMPLED - see borehole record RD 15A for soil profile.		▽					
3		End of Borehole							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 16

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
BH SIZE B
DATES: BORING 96/04/18 WATER LEVEL 96/05/22
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	86.51								
	85.8	TOPSOIL and ROOTMAT			SS	1	350	2	
1	85.4	Dense reddish brown silty sand: TILL (SM)			SS	2	530	32	
2		Very severely fractured to fractured grey MONZOGRANITE			BQ	3	-	-	
3					BQ	4	90%	68%	
4	82.1								
		End of Borehole							
5									
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80
WATER CONTENT & ATTERBERG LIMITS W_P W W_L
DYNAMIC PENETRATION TEST, BLOWS/0.3m ★
STANDARD PENETRATION TEST, BLOWS/0.3m ●
10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 17

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/16

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
	78.17						mm		
0		ROOTMAT and TOPSOIL		▽	SS	1	150	1	
	77.6	COBBLES and BOULDERS							
1									
					BQ	2	640	-	
2	75.9								
		Fractured to moderately sound grey MONZOGRANITE			BQ	3	83%	40%	
3									
					BQ	4	100%	82%	
4	73.8								
		End of Borehole							
5									
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 18

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/16

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
	67.33						mm		
0	67.0	ROOTMAT and TOPSOIL			SS	1	300	PUSH	
	66.5	Dense reddish brown silty sand: TILL (SM)							
1		Severely fractured grey MONZOGRANITE			BQ	2	92%	51%	
2					BQ	3	100%	-	
3					BQ	4	45%	17%	
	63.6	End of Borehole							
4									
5									
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 19

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/19

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
							mm		
0	88.21								
	87.8	ROOTMAT and TOPSOIL			SS	1	430	11	
	87.4	Dense brown sandy silt: TILL (ML)			SS	2	130	37/100 mm	
1		Severely fractured to moderately sound grey MONZOGRANITE			BQ	3	96%	48%	
2									
3					BQ	4	95%	78%	
	84.3								
4		End of Borehole							
5									
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 20

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/19 WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %
0	82.64					
	82.2	ROOTMAT and TOPSOIL	SS	1	410	8
1		Cobbles and boulders with a matrix of reddish brown sandy silt: TILL	BQ	2	280	-
2			BQ	3	300	-
			SS	4	50	REF
3	79.6		BQ	5	180	-
		Fractured to very sound grey MONZOGRANITE	SS	6	50	REF.
4			BQ	7	94%	57%
5			BQ	8	95%	80%
6	76.4		BQ	9	100%	100%
		End of Borehole				
7						
8						
9						
10						
11						
12						

PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 21

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/18

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %
0	75.64					
	75.1	ROOTMAT and TOPSOIL	SS	1	530	3
1	74.4	Dense brown silty sand with gravel: TILL (SM)	SS	2	410	62
2		Very severely fractured to severely fractured grey MONZOGRANITE	BQ	3	57%	21%
3			BQ	4	53%	26%
4	71.6	End of Borehole				
5						
6						
7						
8						
9						
10						
11						
12						

STRATA PLOT

WATER LEVEL

PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 22

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
BH SIZE B
DATES: BORING 96/04/18
WATER LEVEL 96/05/22
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %
0	64.41					
		ROOTMAT and TOPSOIL	SS	1	100	11
	63.8					
1		Compact to dense brown silty sand with gravel to silty clayey sand with gravel: TILL (SC-SM)	SS	2	300	32
2			SS	3	330	21
	62.2	- colour changing to reddish brown with depth				
3		Very severely fractured pink MONZOGRANITE	BQ	4	51%	15%
4			BQ	5	68%	18%
5			BQ	6	100%	13%
	58.9					
6		End of Borehole				
7						
8						
9						
10						
11						
12						

STRATA PLOT
WATER LEVEL
PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80
WATER CONTENT & ATTERBERG LIMITS W_P W W_L
DYNAMIC PENETRATION TEST, BLOWS/0.3m ★
STANDARD PENETRATION TEST, BLOWS/0.3m ●
10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 23

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/20

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY (mm)	SAMPLES N-VALUE OR RQD %
0	86.30					
	85.8	ROOTMAT and TOPSOIL	SS	1	150	18
1		Compact brown silty sand with gravel: TILL (SM)	SS	2	150	19
	85.1					
	84.6	Very stiff reddish brown sandy clay: TILL (CL)	SS	3	300	18
2		Severely fractured pink MONZOGRANITE - moderately altered				
3			BQ	4	92%	48%
4			BQ	5	43%	25%
5	81.1					
		End of Borehole				
6						
7						
8						
9						
10						
11						
12						

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 23

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/20

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %
	86.30					
0	85.8	ROOTMAT and TOPSOIL	SS	1	150	18
1	85.1	Compact brown silty sand with gravel: TILL (SM)	SS	2	150	19
	84.6	Very stiff reddish brown sandy clay: TILL (CL)	SS	3	300	18
2		Severely fractured pink MONZOGRANITE - moderately altered				
3			BQ	4	92%	48%
4			BQ	5	43%	25%
5	81.1	End of Borehole				
6						
7						
8						
9						
10						
11						
12						

STRATA PLOT

WATER LEVEL

PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 24

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/20 to 96/04/22

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
							mm		
0	83.97								
	83.5	ROOTMAT and TOPSOIL			SS	1	430	7	
	83.1	Very loose brown silty SAND (SM)			SS	2	610	11	
1		Stiff to very stiff reddish brown silty clayey sand with gravel: TILL (SC-SM)			SS	3	430	29	
	82.1				SS	4	80	47/125 mm	
2		Severely fractured to fractured pink MONZOGRANITE - slightly altered			BQ	5	100%	47%	
3									
4					BQ	6	98%	64%	
5	78.9	End of Borehole							
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 25

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/23

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	PIEZOMETER
							mm		
0	81.46	ROOTMAT and TOPSOIL			SS	1	100	5	
	80.6				SS	2	400	38	
1		Compact reddish brown silty sand with gravel: TILL (SM)			SS	3	510	47	
	79.7	- 50mm sand seams from 1.22 to 1.72m depth							
2		Very severely fractured to severely fractured pink MONZOGRANITE - slightly altered							
3					BQ	4	73%	9%	
4					BQ	5	93%	38%	
	76.1								
5		End of Borehole							
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 26

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/23

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	77.30								
	76.8	ROOTMAT and TOPSOIL			SS	1	200	PUSH	
1		Fractured to moderately sound grey MONZOGRANITE			BQ	2	85%	74%	
2					BQ	3	100%	71%	
3					BQ	4	97%	85%	
4	73.3	End of Borehole							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 27

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/22

WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %
0	65.70					
	65.1	ROOTMAT and TOPSOIL	SS	1	180	3
1		Dense to very dense brown silty sand and gravel: TILL (SM-GM) - frequent cobbles	BQ	2		-
			SS	3	300	REF.
2	63.5		BQ	4	1750	-
3		Very severely fractured to fractured grey MONZOGRANITE	BQ	5	100%	65%
4						
5	60.5		BQ	6	59%	0%
		End of Borehole				
6						
7						
8						
9						
10						
11						
12						

STRATA PLOT

WATER LEVEL

PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 28

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY — PROJECT No. 30000

LOCATION SITE 'A' — BH SIZE B

DATES: BORING 96/04/25 — WATER LEVEL 96/05/22 — DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	TYPE	NUMBER	RECOVERY	N-VALUE OR RQD %
	83.70				mm	
0	83.2	ROOTMAT and TOPSOIL	SS	1	400	26
		Very dense brown silty sand: TILL (SM)	SS	2	100	20/25mm
1			SS	3	580	54
	81.9					
2	81.4	Hard reddish brown sandy clay with gravel: TILL (CL)	SS	4	360	61
		Severely fractured pink MONZOGRANITE - slightly altered	BQ	5	80%	26%
3						
4			BQ	6	-	-
5	78.2					
		End of Borehole				
6						
7						
8						
9						
10						
11						
12						

STRATA PLOT — WATER LEVEL — PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 29

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/25 WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	83.01								
	82.4	ROOTMAT and TOPSOIL			SS	1	380	5	
1		Very stiff reddish brown sandy clay: TILL (CL)			SS	2	300	13	
	81.2				SS	3	130	21	
2		Severely fractured to fractured pink MONZOGRANITE - slightly altered							
3					BQ	4	100%	17%	
4					BQ	5	88%	53%	
5	77.7								
		End of Borehole							
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

W_P W W_L

WATER CONTENT & ATTERBERG LIMITS

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 30

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/24 WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	PIEZOMETER
0	72.97								
	72.5	ROOTMAT and TOPSOIL - cobbles and boulders at surface			SS	1	380	8	
	72.2				SS	2	200	22/50 mm	
1		Dense reddish brown silty sand with gravel: TILL (SM)			BQ	3	91%	23%	
2		Very severely fractured to fractured grey MONZOGRANITE							
3					BQ	4	95%	57%	
	69.2								
4		End of Borehole							
5									
6									
7									
8									
9									
10									
11									
12									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

W_P W W_L

WATER CONTENT & ATTERBERG LIMITS

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

RD 31

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/04/24 WATER LEVEL 96/05/22

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %
0	61.23					
	60.8	ROOTMAT and TOPSOIL	SS	1	380	7
1	60.0	Very dense brown silty sand with gravel: TILL (SM)	SS	2	380	82
2		Compact to very dense reddish brown silty sand with gravel: TILL (SM) - sandy clay layer at 2.08m depth	SS	3	460	27
			SS	4	430	24
3			SS	5	480	27
4						
			SS	6	410	82
5	55.4					
6		Fractured to moderately sound grey to pink MONZOGRANITE - slightly altered	BQ	7	98%	84%
7						
8			BQ	8	100%	52%
9	52.2					
		End of Borehole				
10						
11						
12						

STRATA PLOT

WATER LEVEL

PIEZOMETER

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

B1

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/01/22 to 96/01/23

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
0	71.00								
	70.39	ROOTMAT and TOPSOIL			SS	1	175	PUSH	
1		Compact reddish brown silty sand: TILL (SM)			SS	2	600	13	S H
2	68.26			▽					
3		Stiff to hard sandy clay to clayey sand with gravel: TILL (CL-SC) - numerous cobbles and boulders			SS	3	600	14	S H
4					SS	4	400	30	
5									
6					SS	5	150	REFUSAL	
7					SS	6	600	42	S H
8					SS	7	75	REFUSAL	
9		- boulder at 8.81m depth			SS	8	50	REFUSAL	
10		- boulder at 10.24m depth							
11					SS	9	175	117	
12									

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

Continued Next Page

BOREHOLE RECORD

B1

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/01/22 to 96/01/23

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
12									
13					SS	10	450	60	
14									
15									
15					SS	11	525	30	
16									
17					SS	12	500	55	
18									
19									
19					SS	13	325	69	
20									
21									
22					SS	14	400	40	
23									
23					SS	15	250	27/150mm	
24									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft *

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

Continued Next Page

BOREHOLE RECORD

B1

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE B

DATES: BORING 96/01/22 to 96/01/23

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
24									
25	45.70								
		Very severely fractured grey MONZOGRANITE - slightly altered			BQ	16	100%	0%	
26	44.76				BQ	17	100%	0%	
		End of Borehole * no standpipe installed							
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

B2

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/01/25 to 96/01/29

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
0	72.60								
	71.99	ROOTMAT and TOPSOIL			SS	1	575	11	
1		Compact reddish brown silty clayey sand with gravel: TILL (SC-SM)							
					ST	2	125	PUSH	
2					SS	3	300	20	S H
3	69.40								
		Hard reddish brown sandy clay to clayey sand with gravel: TILL (CL-SC) - numerous cobbles and boulders			SS	4	300	68	S H
4									
5					SS	5	0	REFUSAL	
6									
7					SS	6	375	130	
8		- boulder at 7.77m depth							
9					SS	7	300	58	S H
					SS	8	150	26/150mm	
10									
11					SS	9	50	REFUSAL	
12									

UNDRAINED SHEAR STRENGTH - kPa

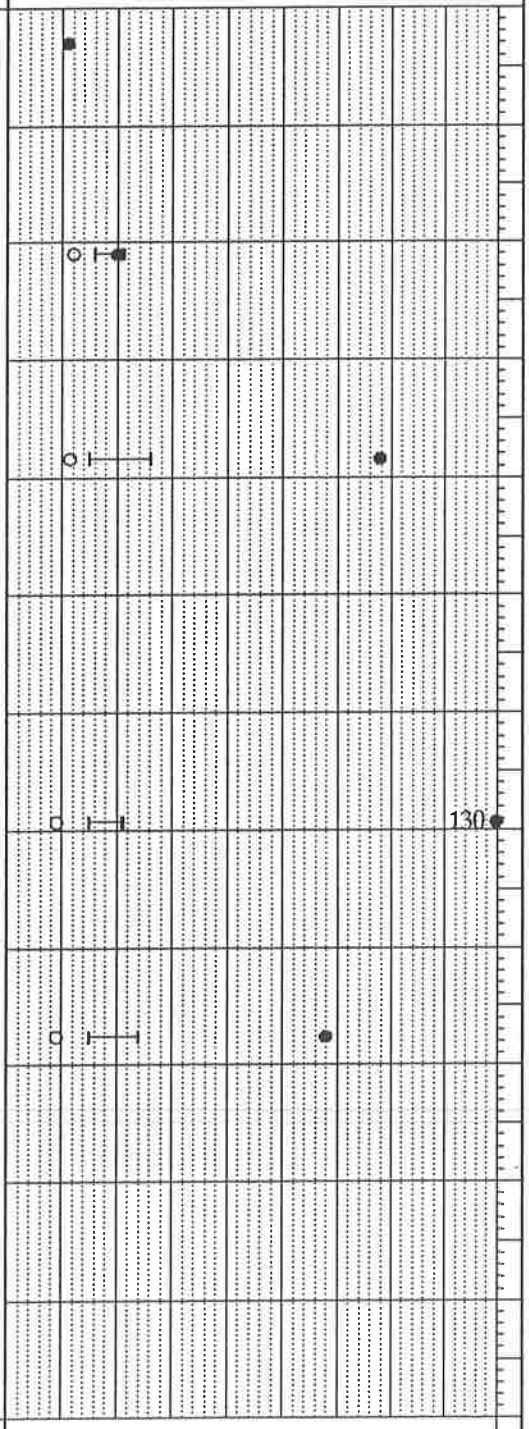
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90



Continued Next Page

BOREHOLE RECORD

B2

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/01/25 to 96/01/29

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
12									
13					SS	10	225	REFUSAL	
14									
15									
16					SS	11	375	34	
17									
18									
19					SS	12	600	48	S H
20									
21									
22		- sand lens at 22m depth			SS	13	450	56	
	50.17	End of Borehole * no standpipe installed							
23									
24									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft *

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

B3

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/01/24 to 96/01/25

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
0	77.42								
	76.96	ROOTMAT and TOPSOIL			SS	1	475	3	
1		Very stiff to hard reddish brown sandy clay to clayey sand with gravel: TILL (CL-SC) - occasional cobbles and boulders							
					SS	2	550	20	S H
2									
3				▽	SS	3	575	23	S H
4									
					SS	4	425	34	
5									
6					SS	5	125	35	
7									
					SS	6	600	57	S H
8									
9		- 400mm sand and gravel seam at 9.25m depth							
		68.17			SS	7	600	54	
10									
11					SS	8	475	13/150 mm	S H
12									

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

Continued Next Page

BOREHOLE RECORD

B3

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/01/24 to 96/01/25

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
12									
13		- boulder at 12.95m depth							
14		- 460mm sand and gravel seam at 13.84m depth			SS	9	600	46	
15		63.58			SS	10	375	31	S H
16					SS	11	350	54	
17		~60.0							
18					SS	12	275	49	
19									
20									
21	56.16				SS	13	300	37	
22		End of Borehole							
23									
24									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

B4

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/01/31 to 96/02/01

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
	71.14								
0	70.68	ROOTMAT and TOPSOIL			SS	1	400	2	
1		Firm to hard reddish brown sandy clay: TILL (CL) - occasional cobbles and boulders			SS	2	400	12	S H
2									
3					SS	3	525	18	S H
4									
5		- 450mm sand layer at 4.65m depth			SS	4	350	22	
6									
7									
8					SS	5	425	28	
9									
10									
11					SS	6	250	24	
12									

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

Continued Next Page

BOREHOLE RECORD

B4

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/01/31 to 96/02/01

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
12									
13					SS	7	200	28	
14									
15									
16									
17					SS	8	500	22	S H
18									
19									
20					SS	9	350	35	
21									
22									
23	47.98				SS	10	400	31	
		End of Borehole * no standpipe installed							
24									

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

B5

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/01/30 to 96/01/31

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
0	72.95								
	72.49	ROOTMAT and TOPSOIL			SS	1	300	2	
1		Hard reddish brown sandy clay with gravel to clayey sand with gravel: TILL (CL-SC) - numerous cobbles - occasional boulders			SS	2	600	34	S H
2									
3									
4					SS	3	300	43	S H
5									
6									
7					SS	4	50	REFUSAL	
8					SS	5	450	35	
9									
10									
11									
12					SS	6	400	32	

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

Continued Next Page

BOREHOLE RECORD

B5

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE N

DATES: BORING 96/01/30 to 96/01/31

WATER LEVEL *

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR-RQD %	OTHER TESTS
12									
13		-boulder at 12.95m depth							
14									
15					SS	7	400	36	S H
16									
	56.24				SS	8	550	32	
17		End of Borehole * no standpipe installed							
18									
19									
20									
21									
22									
23									
24									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/ft ★

STANDARD PENETRATION TEST, BLOWS/ft ●

10 20 30 40 50 60 70 80 90

APPENDIX 1b

TEST PIT RECORDS

TEST PIT RECORD

TP B1

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP B1

DATES: DUG 96/02/07 WATER LEVEL 96/02/07

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	71.23						
	70.6	ROOTMAT and TOPSOIL		▽	BS	1	
1		Stiff reddish brown clayey sand with gravel: TILL (SC-SM) - pockets of silty sand with gravel from 2.13 to 2.74m depth			BS	2	S H
2					BS	3	
	68.5				BS	4	S H
3		Very stiff to hard sandy clay with gravel: TILL (CL)					
4					BS	5	S H
	66.7						
5		End of Test Pit					
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP B2

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY — PROJECT No. 30000

LOCATION SITE 'A' — TEST PIT No. TP B2

DATES: DUG 96/02/07 — WATER LEVEL *96/02/07 — DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	76.27						
		ROOTMAT and TOPSOIL					
	75.8				BS	1	
		Compact reddish brown silty sand: TILL (SM)					
	75.4				BS	2	
1		Very dense reddish brown clayey sand with gravel: TILL (SC)					
					BS	3	S H
2							
3					BS	4	S H
4							
	71.7				BS	5	S H
		End of Test Pit * no seepage observed					
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP RD1

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP RD1
DATES: DUG 96/02/06
WATER LEVEL
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	101.70						
		ROOTMAT and TOPSOIL			BS	1	
	101.1	Compact brown silty sand with gravel: TILL (SM)			BS	2	
1	100.8	Stiff to very stiff reddish brown sandy clay with gravel: TILL (CL) - numerous cobbles and boulders			BS	3	
2							
					BS	4	
3							
4							
	96.8				BS	5	
5		End of Test Pit					
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP RD2

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP RD2
DATES: DUG 96/02/06 WATER LEVEL 96/02/06
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	98.72						
		ROOTMAT and TOPSOIL			BS	1	
	98.0			▽	BS	2	
1		Very stiff reddish brown sandy clay with gravel: TILL (CL) - numerous cobbles and boulders			BS	3	
2							
3					BS	4	
	95.2						
		End of Test Pit on inferred bedrock					
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP RD3

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP RD3

DATES: DUG 96/02/06 WATER LEVEL *96/02/06

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	85.52						
		ROOTMAT and TOPSOIL - numerous boulders					
	85.1						
		Compact brown silty sand: TILL (SM) - occasional cobbles			BS	1	
	84.7						
1		End of Test Pit on inferred bedrock * no seepage observed					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP RD4

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP RD4

DATES: DUG 96/02/06 WATER LEVEL 96/02/06

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	95.40						
		ROOTMAT and TOPSOIL			BS	1	
	94.8	Hard reddish brown sandy silty clay with gravel: TILL (CL-ML) - numerous cobbles		▽	BS	2	
1							
2							
3					BS	3	S H
	91.9	End of Test Pit on inferred bedrock					
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

C

TEST PIT RECORD

TP RD5

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP RD5

DATES: DUG 96/02/06 WATER LEVEL 96/02/06

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	98.11						
		ROOTMAT and TOPSOIL					
	97.7			▽	BS	1	
		Stiff reddish brown sandy silty clay with gravel: TILL (CL-ML)			BS	2	S H
	97.2						
1		Very stiff reddish brown sandy clay: TILL (CL)					
2					BS	3	S H
3							
4							
5	92.9						
		End of Test Pit					
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP RD6

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP RD6
DATES: DUG 96/02/06 WATER LEVEL 96/02/06
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	68.71						
		ROOTMAT and TOPSOIL - some boulders					
	68.1						
		Compact to dense brown silty sand with gravel: TILL (SM)		▽	BS	1	S H
1	67.3						
		End of Test Pit on inferred bedrock					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80
WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP RD7

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP RD7

DATES: DUG 96/02/06 WATER LEVEL 96/02/06

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	68.34						
		ROOTMAT and TOPSOIL - numerous cobbles and boulders					
	67.6						
1		Compact to dense brown silty sand with gravel: TILL (SM)		▽			
	66.8						
		End of Test Pit on inferred bedrock					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

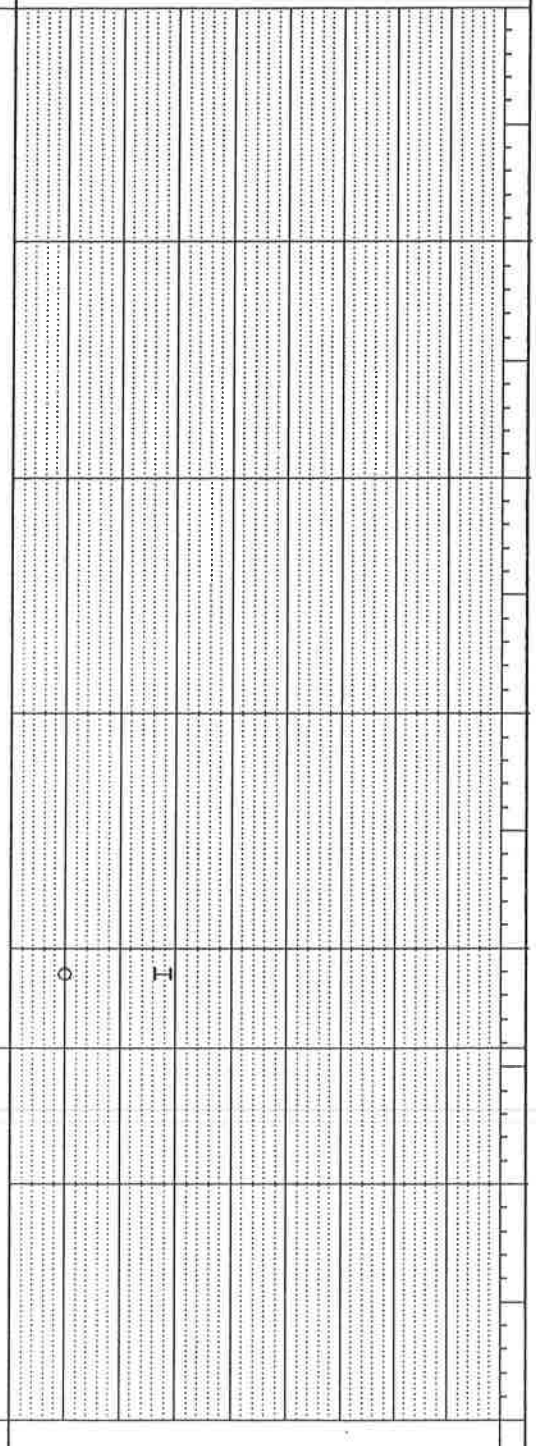
TP RD8

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP RD8
DATES: DUG 96/02/06 WATER LEVEL *96/02/06
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	91.67						
	91.3	ROOTMAT and TOPSOIL					
	90.9	Compact brown silty sand with gravel: TILL (SM)			BS	1	
1		Compact reddish brown sandy silt: TILL (ML) - zones of silty sand			BS	2	
2							
3							
4	87.3				BS	3	S H
		End of Test Pit on inferred bedrock * no seepage observed					
5							
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90



TEST PIT RECORD

TP RD9

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP RD9

DATES: DUG 96/02/07 WATER LEVEL *96/02/07

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	82.56						
	82.0	ROOTMAT and COBBLES					
1		Compact brown silty sand with gravel: TILL (SM) - pockets of coarse sand			BS	1	
	81.3			▽	BS	2	
		Soft reddish brown clayey sand: TILL (SC)			BS	3	S H
	80.7						
2		Dense brown silty sand with gravel: TILL (SM)			BS	4	S H
	79.7						
3		End of Test Pit on inferred bedrock * water flowing freely					
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP RD10

CLIENT **MIRROR N.S. - RESIDUALS DISPOSAL FACILITY** PROJECT No. **30000**

LOCATION **SITE 'A'** TEST PIT No. **TP RD10**

DATES: DUG **96/02/07** WATER LEVEL ***96/02/07** DATUM **GEODETIC**

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	91.57						
	91.3	ROOTMAT and TOPSOIL					
	90.8	Compact brown silty sand with gravel: TILL (SM)					
1		Stiff to very stiff reddish brown clayey sand with gravel: TILL (SC)			BS	1	S H
2							
3							
4							
5	86.4						
		End of Test Pit * no seepage observed					
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP RD18

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP RD18

DATES: DUG 96/05/01

WATER LEVEL *96/05/01

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	66.59						
	66.3	ROOTMAT and TOPSOIL					
	65.8	Dense brown silty sand with gravel: TILL (SM) - frequent cobbles and boulders					
1		COBBLES and BOULDERS with a matrix of brown sand and gravel					
2		- depth to bedrock varies from 0.81 to 4.27m over 10m length of test pit					
3							
4	62.3						
		End of Test Pit on inferred bedrock * steady flow of water					
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 101

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 101

DATES: DUG 96/04/23 WATER LEVEL 96/04/23

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	88.21						
		ROOTMAT and TOPSOIL					
	87.6						
		Compact to dense brown sandy silt: TILL (ML)		▽	BS	1	S
1	87.1						
		Stiff reddish brown silty clayey sand: TILL (SC-SM)					
2							
	85.6						
		End of Test Pit on inferred bedrock					
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 102

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP 102
DATES: DUG 96/04/23
WATER LEVEL 96/04/23
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	79.31						
		ROOTMAT and TOPSOIL					
	78.9						
	78.7	Compact brown sandy silt: TILL (ML)			BS	1	S
		End of Test Pit on inferred bedrock					
1							
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 103

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 103

DATES: DUG 96/04/23

WATER LEVEL *96/04/23

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	70.33						
	70.1	ROOTMAT and TOPSOIL					
		Compact brown gravel with silt and sand: TILL (GM)		▽	BS	1	S
1	69.2						
		End of Test Pit on inferred bedrock * steady flow of water					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 104

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP 104
DATES: DUG 96/04/26 WATER LEVEL 96/04/26
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	84.62						
		ROOTMAT and TOPSOIL					
	84.2						
		Compact to dense brown silty sand: TILL (SM)			BS	1	
	83.9						
1		End of Test Pit on inferred bedrock					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 105

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY — PROJECT No. 30000

LOCATION SITE 'A' — TEST PIT No. TP 105

DATES: DUG 96/04/23 — WATER LEVEL 96/04/23 — DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	79.30						
	79.0	ROOTMAT and TOPSOIL					
		Compact to dense brown silty sand with gravel: TILL (SM) - some cobbles and boulders			BS	1	S
	78.4						
1	78.1	Severely fractured MONZOGRANITE - highly weathered		▽			
		End of Test Pit in inferred bedrock					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 106

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 106

DATES: DUG 96/04/23 WATER LEVEL *96/04/23

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	71.20						
	70.8	ROOTMAT and TOPSOIL					
		Compact to dense brown silty sand with gravel: TILL (SM)			BS	1	S
1	70.0						
		End of Test Pit on inferred bedrock - bedrock slopes E-W from 0.38 to 1.22m depth over 1.52m length of test pit. * no seepage observed					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 107

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000

LOCATION SITE 'A'
TEST PIT No. TP 107

DATES: DUG 96/04/26
WATER LEVEL 96/04/26
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	82.90						
		ROOTMAT and TOPSOIL			BS	1	
	82.5						
	82.4	Compact to dense black silty sand with gravel (SM)			BS	2	
1		Compact to dense brown silty sand with gravel: TILL (SM) - occasional cobbles and boulders			BS	3	
2							
3							
4							
5	77.7				BS	4	S
		End of Test Pit					
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 108

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 108

DATES: DUG 96/04/26 WATER LEVEL 96/04/26

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	82.36						
	82.1	ROOTMAT and TOPSOIL					
	81.8	Compact reddish brown silty sand (SM)					
1		Compact to dense brown silty sand: TILL (SM) - some cobbles		▽	BS	1	
2							
3							
4	78.3				BS	2	
		End of Test Pit on inferred bedrock					
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 109

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 109

DATES: DUG 96/04/26 WATER LEVEL *96/04/26

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	68.18						
		ROOTMAT and TOPSOIL					
	67.7						
		Compact to dense brown silty sand: TILL (SM) - some cobbles			BS	1	
1	66.4						
		End of Test Pit on inferred bedrock * no seepage observed					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 110

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000

LOCATION SITE 'A'
TEST PIT No. TP 110

DATES: DUG 96/04/26
WATER LEVEL *96/04/26
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	90.12				
		Brown TOPSOIL	BS	1	
	89.5				
1		Compact brown silty sand with gravel: TILL (SM)	BS	2	S
			BS	3	
2	88.0				
		Dense reddish brown clayey sand with gravel: TILL (SC)			
3					
	86.2		BS	4	S
4		End of Test Pit on inferred bedrock * steady flow of water			
5					
6					

STRATA PLOT / WATER LEVEL

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 111

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 111

DATES: DUG 96/05/01 WATER LEVEL *96/05/01

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	69.83			▽			
	69.5	ROOTMAT and TOPSOIL					
1		Compact brown silty sand with gravel: TILL (SM)					
	68.3	End of Test Pit on inferred bedrock * heavy flow of water from surface					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 112

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 112

DATES: DUG 96/05/01 WATER LEVEL 96/05/01

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	80.18						
	79.9	ROOTMAT					
		Compact to dense COBBLES and BOULDERS with a matrix of brown silty sand					
	77.4	End of Test Pit on inferred bedrock					

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 113

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 113

DATES: DUG 96/04/26 WATER LEVEL *96/04/26

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	87.52						
		ROOTMAT and TOPSOIL					
	86.9						
		End of Test Pit on inferred bedrock * no seepage observed					

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

1 2 3 4 5 6

TEST PIT RECORD

TP 114

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 114

DATES: DUG 96/05/01

WATER LEVEL *96/05/01

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	73.54						
	73.3	ROOTMAT and TOPSOIL					
		Very dense COBBLES and BOULDERS with matrix of brown silty sand		▽			
2	71.1				BS	1	S
		End of Test Pit on inferred bedrock * steady flow of water					
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 115

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 115

DATES: DUG 96/05/01 WATER LEVEL 96/05/01

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	82.03						
	81.5	ROOTMAT and TOPSOIL					
1	80.8	Compact to dense brown silty sand with gravel: TILL (SM) - some cobbles		▽	BS	1	S
		End of Test Pit on inferred bedrock					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 116

CLIENT **MIRROR N.S. - RESIDUALS DISPOSAL FACILITY**

PROJECT No. **30000**

LOCATION **SITE 'A'**

TEST PIT No. **TP 116**

DATES: DUG **96/05/01**

WATER LEVEL ***96/05/01**

DATUM **GEODETIC**

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	90.74						
	90.4	ROOTMAT					
	89.9	Compact reddish brown silty sand with gravel: TILL (SM)					
		End of Test Pit on inferred bedrock * no seepage observed					
1							
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 117

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 117

DATES: DUG 96/05/01

WATER LEVEL 96/05/01

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	98.88						
	98.6	ROOTMAT and TOPSOIL					
		Very stiff reddish brown sandy clay: TILL (CL) - numerous cobbles			BS	1	
					BS	2	S
	94.2	End of Test Pit on inferred bedrock					

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 118

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000

LOCATION SITE 'A'
TEST PIT No. TP 118

DATES: DUG 96/05/02
WATER LEVEL *96/05/02
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	63.24			▽			
	62.9	ROOTMAT					
		Loose brown to black PEAT					
	62.3						
1		Loose greyish brown SAND with cobbles and boulders					
	61.7						
		End of Test Pit on boulder - unstable * heavy flow of water from surface to bottom					
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 119

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 119

DATES: DUG 96/05/02 WATER LEVEL 96/05/02

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	62.80			▽			
		ROOTMAT and TOPSOIL					
	62.2						
		Compact to dense greyish brown SAND with cobbles and boulders					
1							
2							
3	59.8						
		Dense brown sandy silt with gravel: TILL (SM) - numerous cobbles and boulders at 3.96 to 4.27m depth			BS	1	S
4	58.5						
		End of Test Pit					
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 120

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP 120
DATES: DUG 96/05/02 WATER LEVEL *96/05/02
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	63.66						
	63.4	ROOTMAT					
	63.1	Compact brown SAND and GRAVEL		▽			
1		Compact greyish brown GRAVEL with silt and sand - numerous cobbles and boulders			BS	1	S
2							
3							
	60.0						
4		Dense brown sandy silt with gravel: TILL (ML) - numerous cobbles and some boulders from 4.27m depth			BS	2	S
	59.1						
5		End of Test Pit on inferred bedrock * heavy flow of water at 1.52m depth					
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 121

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 121

DATES: DUG 96/05/02

WATER LEVEL *96/05/02

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	63.70						
	63.4	ROOTMAT					
		Dense greyish brown SAND with silt and gravel (SM) - some cobbles and boulders			BS	1	S
1							
	61.8						
2		End of Test Pit * steady flow of water throughout entire depth - cave-ins					
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 122

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 122

DATES: DUG 96/05/02 WATER LEVEL 96/05/02

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	64.01						
	63.7	ROOTMAT					
		Dense brown sandy silt: TILL (ML) - numerous cobbles and boulders			BS	1	S
	59.1	End of Test Pit					

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

1 2 3 4 5 6

TEST PIT RECORD

TP 123

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 123

DATES: DUG 96/05/03 WATER LEVEL 96/05/03

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	63.81						
		ROOTMAT and TOPSOIL					
	63.5						
		Dense brown silty sand with gravel: TILL (SM) - numerous cobbles and boulders		▽	BS	1	S
	58.9						
		End of Test Pit					

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 124

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 124

DATES: DUG 96/05/03 WATER LEVEL 96/05/03

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	65.51						
		ROOTMAT and TOPSOIL					
	64.9						
		Dense brown silty sand with gravel: TILL (SM) - numerous cobbles and boulders		▽	BS	1	
	61.6						
		End of Test Pit on inferred bedrock					

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 125

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY — PROJECT No. 30000

LOCATION SITE 'A' — TEST PIT No. TP 125

DATES: DUG 96/05/03 — WATER LEVEL *96/05/03 — DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	62.47						
	62.3	ROOTMAT and TOPSOIL					
		Loose to compact COBBLES and BOULDERS with a matrix of grey sand and gravel					
	61.6						
1		Dense reddish brown silty clayey sand with gravel: TILL (SC-SM) - numerous cobbles and boulders			BS	1	S
2	60.0						
		End of Test Pit on inferred bedrock * steady flow of water					
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 126

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY — PROJECT No. 30000

LOCATION SITE 'A' — TEST PIT No. TP 126

DATES: DUG 96/05/03 — WATER LEVEL *96/05/03 — DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	62.36						
	62.1	ROOTMAT and TOPSOIL					
		Dense to very dense COBBLES and BOULDERS with matrix of brown sand and gravel					
4	58.3						
		End of Test Pit on inferred bedrock * steady flow of water					

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 127

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 127

DATES: DUG 96/05/03

WATER LEVEL 96/05/03

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	62.20						
	61.9	ROOTMAT					
		Dense COBBLES and BOULDERS with matrix of brown sand and gravel		▽	BS	1	S
3	59.2						
		Compact to dense reddish brown silty clayey sand with gravel: TILL (SC-SM) - numerous cobbles			BS	2	
4	57.9						
		End of Test Pit on inferred boulders					
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 128

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 128

DATES: DUG 96/05/06 WATER LEVEL *96/05/06

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	62.05						
	61.8	ROOTMAT and TOPSOIL					
		Compact grey SAND and GRAVEL					
1	60.9						
		Dense brown SAND and GRAVEL - numerous cobbles			BS	1	
	60.2			▽			
2		Dense to very dense COBBLES and BOULDERS with a matrix of brown sand					
	59.3						
		Compact to dense reddish brown silty clayey sand with gravel: TILL (SM-SC) - numerous cobbles and boulders					
3							
4							
	57.3						
		End of Test Pit * heavy flow of water					
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 129

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 129

DATES: DUG 96/05/06

WATER LEVEL *96/05/06

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	62.13						
		ROOTMAT and TOPSOIL - numerous boulders					
	61.5						
		Dense brown SAND with GRAVEL - some cobbles and boulders			BS	1	
1	60.6			▽			
		Dense brown clayey sand with gravel to stiff brown sandy clay with gravel: TILL (CL) - numerous cobbles and boulders					
2							
3							
					BS	2	S
4					BS	3	S
	57.3						
5		End of Test Pit * heavy flow of water					
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 130

CLIENT **MIRROR N.S. - RESIDUALS DISPOSAL FACILITY**

PROJECT No. **30000**

LOCATION **SITE 'A'**

TEST PIT No. **TP 130**

DATES: DUG **96/05/06**

WATER LEVEL **96/05/06**

DATUM **GEODETIC**

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	62.85						
		ROOTMAT and TOPSOIL - numerous boulders					
	62.6	Compact to dense brown clayey sand: TILL (SC) - frequent cobbles and boulders		▽	BS	1	
3	59.8	- heavy flow of water at 3.05m depth			BS	2	
		Compact reddish brown silty sand with clay: TILL (SC) - numerous cobbles and boulders					
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

Continued Next Page

TEST PIT RECORD

TP 130

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 130

DATES: DUG 96/05/06 WATER LEVEL 96/05/06

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
6	56.8	End of Test Pit					
7							
8							
9							
10							
11							
12							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 131

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 131

DATES: DUG 96/05/06 WATER LEVEL 96/05/06

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	62.25						
	62.0	ROOTMAT and TOPSOIL					
		Compact brown silty sand with gravel: TILL (SM) - frequent cobbles and boulders		▽	BS	1	S
					BS	2	
		- heavy flow of water at 3.05m depth - cave-ins ~59.2					
	57.7						
		Compact to dense brown silty clayey sand with gravel: TILL (SC-SM)			BS	3	
	56.8						
		End of Test Pit					

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 132

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP 132
DATES: DUG 96/05/07
WATER LEVEL 96/05/07
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	105.83				
		ROOTMAT and TOPSOIL	BS	1	
	105.0	Stiff reddish brown sandy clay with gravel: TILL (CL) - numerous cobbles	BS	2	
1					
2					
3					
4					
5					
6					

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80
WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

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TEST PIT RECORD

TP 132

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 132

DATES: DUG 96/05/07

WATER LEVEL 96/05/07

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
6							
	99.4				BS	3	
		End of Test Pit					
7							
8							
9							
10							
11							
12							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 133

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 133

DATES: DUG 96/05/07 WATER LEVEL 96/05/07

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	105.35						
		ROOTMAT and TOPSOIL		▽			
	104.5						
1		Stiff to very stiff reddish brown sandy clay with gravel: TILL (CL) - occasional sand seams			BS	1	S
2							
3							
4							
5							
					BS	2	S
	99.6						
		End of Test Pit					
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 134

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 134

DATES: DUG 96/05/07 WATER LEVEL 96/05/07

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	95.70						
	95.4	ROOTMAT and TOPSOIL					
	95.1	Compact brown silty sand with gravel: TILL (SM)		▽	BS	1	
		End of Test Pit on inferred bedrock					
1							
2							
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 135

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 135

DATES: DUG 96/05/07

WATER LEVEL 96/05/07

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	106.48						
		ROOTMAT and TOPSOIL		▽			
	105.9				BS	1	
1		Stiff to very stiff reddish brown sandy clay with gravel: TILL (CL) - numerous cobbles and boulders					
					BS	2	
2							
3							
4							
5							
		- boulder at 5.8m depth			BS	3	
6	100.5						

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

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TEST PIT RECORD

TP 135

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 135

DATES: DUG 96/05/07 WATER LEVEL 96/05/07

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
6		End of Test Pit on inferred bedrock					
7							
8							
9							
10							
11							
12							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 136

CLIENT **MIRROR N.S. - RESIDUALS DISPOSAL FACILITY** PROJECT No. **30000**

LOCATION **SITE 'A'** TEST PIT No. **TP 136**

DATES: DUG **96/05/07** WATER LEVEL ***96/05/07** DATUM **GEODETIC**

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	109.79						
	109.5	ROOTMAT					
		Loose to compact brown silty sand: TILL (SM) - numerous cobbles and boulders		▽			
	108.9						
1		Stiff to very stiff reddish brown sandy clay: TILL (CL) - numerous cobbles					
2					BS	1	S
3							
4							
5							
	104.3						
		Compact to dense brown SAND with GRAVEL					
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

Continued Next Page

TEST PIT RECORD

TP 136

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY — PROJECT No. 30000

LOCATION SITE 'A' — TEST PIT No. TP 136

DATES: DUG 96/05/07 — WATER LEVEL *96/05/07 — DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
6	103.7						
	103.6	Severely fractured MONZOGRANITE - highly weathered			BS	2	
		End of Test Pit on inferred bedrock					
		* heavy flow of water					
7							
8							
9							
10							
11							
12							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 137

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY

PROJECT No. 30000

LOCATION SITE 'A'

TEST PIT No. TP 137

DATES: DUG 96/05/07 WATER LEVEL 96/05/07

DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	110.52						
		ROOTMAT and TOPSOIL - steady flow of water from 0.30 to 1.07m depth		▽			
	109.6						
1		Compact brown silty clayey sand: TILL (SC-SM) - occasional cobbles and boulders			BS	1	
	108.6						
2		End of Test Pit on inferred bedrock					
3							
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

10 20 30 40 50 60 70 80 90

TEST PIT RECORD

TP 138

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
PROJECT No. 30000
LOCATION SITE 'A'
TEST PIT No. TP 138
DATES: DUG 96/05/07 WATER LEVEL
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLE TYPE	SAMPLE NUMBER	OTHER TESTS
0	110.34						
		ROOTMAT and TOPSOIL		▽			
	109.4						
1		Compact brown silty clayey sand with gravel: TILL (SC-SM)					
		- occasional cobbles and boulders					
2							
					BS	1	
3	107.3						
		End of Test Pit on inferred bedrock					
4							
5							
6							

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L
10 20 30 40 50 60 70 80 90

APPENDIX 1c

AUGER PROBE RECORDS

BOREHOLE RECORD

AP 1

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/11

WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		Reddish brown silty SAND and GRAVEL to clayey SAND and GRAVEL -numerous boulders		▽	AS	1	-	-	▽
1		-			SS	2	460	39	
2		Reddish brown clayey sand and gravel, occasional cobbles: TILL							
3									
4					SS	3	350	65	
5									
6									
		Probable GRANITE BEDROCK							
7		End of Borehole							
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

AP 2/A/B

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/13

WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		ROOTMAT							
		Brown silty SAND and GRAVEL		▽	AS	1	-	-	▽
1									
		End of Borehole refusal to auger on probable bedrock							
2									
3									
4									
5									
6									
7									
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

AP 3

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/13 WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		Brown silty SAND and GRAVEL, occasional cobbles and boulders		▽	AS	1	-	-	▽
1		Reddish brown sandy clay: TILL			SS	2	450	11	
2					AS	3	-	-	
3					SS	4	610	22	
4		Probable GRANITE BEDROCK							
		End of Borehole							
5									
6									
7									
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

AP 4

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/13 WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		Brown silty SAND and GRAVEL		▽	AS	1	-	-	▽
1					SS	2	-	103/250mm	
2		Probable granite ~~BE~~BEDROCK							
		End of Borehole							
3									
4									
5									
6									
7									
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

AP 5/A/B

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/13

WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		ROOTMAT							
		Brown silty SAND, some gravel -surface cobbles and boulders		▽	AS	1	-	-	▽
1		End of Borehole -refusal to auger on probable bedrock							
2									
3									
4									
5									
6									
7									
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P w W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

AP 6/6A

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/13

WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		Reddish brown silty SAND and GRAVEL to clayey SAND and GRAVEL			AS	1	-	-	
1		Probable GRANITE BEDROCK							
		End of Borehole							
2									
3									
4									
5									
6									
7									
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

AP 7

CLIENT MIRROR N.S. PROJECT No. 30000

LOCATION SITE 'A' BH SIZE AUGER

DATES: BORING 95/09/13 WATER LEVEL 95/09/20 DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		TOPSOIL and GRASS							
		Reddish brown sandy clay some gravel, occasional cobbles: TILL			AS	1	-	-	
1									
					SS	2	480	13	
2									
					SS	3	460	15	
3									
					SS	4	510	32	
4									
5				▽					▽
					SS	5	510	24	
6									
					SS	6	460	47	
7									
		Reddish brown silty sand and gravel with clayey sand pockets: TILL							
8									
					SS	7	406	47	
9									
10									

UNDRAINED SHEAR STRENGTH - kPa
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

Continued Next Page

BOREHOLE RECORD

AP 7

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/13

WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
10									
		Reddish brown sandy clay, some gravel, occasional cobbles: TILL			SS	8	355	36	
11									
12									
13		Probable GRANITE BEDROCK							
		End of Borehole							
14									
15									
16									
17									
18									
19									
20									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

AP 8

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/19 WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		Reddish brown sandy clay and gravel: TILL							
1					SS	1	510	17	
2									
3					SS	2	460	29	
4		Probable GRANITE BEDROCK							
		End of Borehole							
5									
6									
7									
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

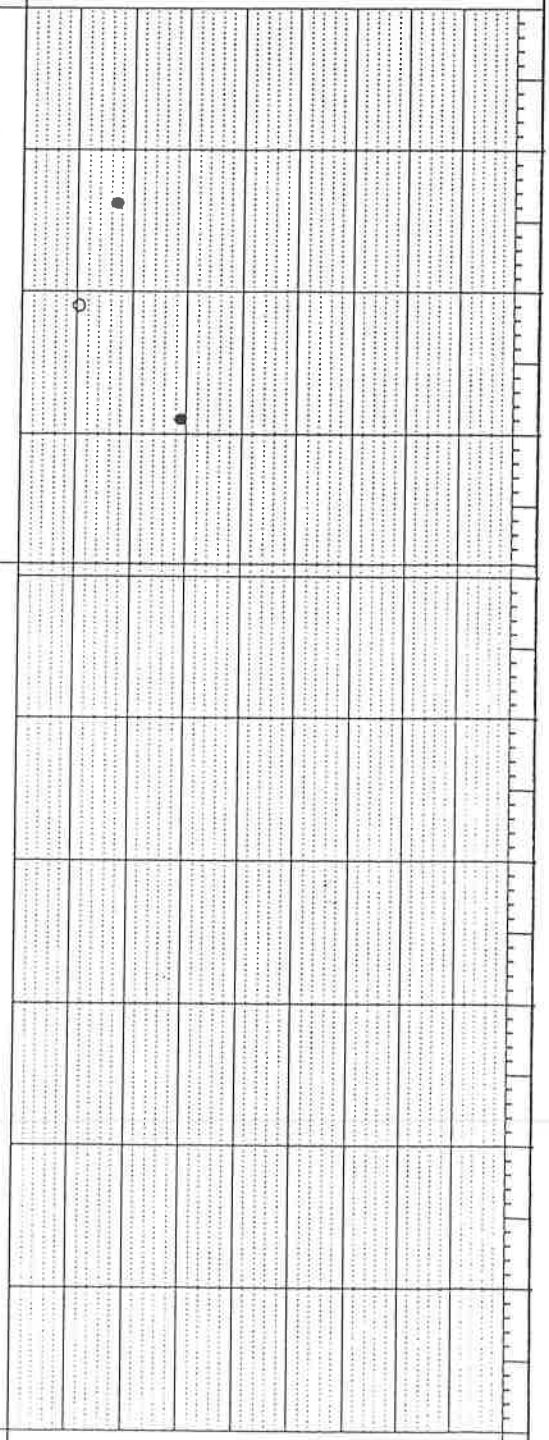
20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90



BOREHOLE RECORD

AP 9

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/19 WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		Reddish brown sandy clay: TILL		▽	AS	1	-	-	▽
1					SS	2	380	61/ 250mm	
2		Probable granite BEDROCK							
		End of Borehole							
3									
4									
5									
6									
7									
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

BOREHOLE RECORD

AP 10

CLIENT MIRROR N.S.

PROJECT No. 30000

LOCATION SITE 'A'

BH SIZE AUGER

DATES: BORING 95/09/19

WATER LEVEL 95/09/20

DATUM

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	MONITOR WELL
0		Reddish brown to dark reddish brown sandy clay and gravel: TILL			AS	1	-	-	
1					SS	2	510	8	
2									
3					SS	3	460	20	
4									
5					SS	4	510	30	
6									
7					SS	5	510	26	
		Probable GRANITE BEDROCK							
		End of Borehole							
8									
9									
10									

UNDRAINED SHEAR STRENGTH - kPa

20 40 60 80

WATER CONTENT & ATTERBERG LIMITS W_P W W_L

DYNAMIC PENETRATION TEST, BLOWS/0.3m ★

STANDARD PENETRATION TEST, BLOWS/0.3m ●

10 20 30 40 50 60 70 80 90

APPENDIX 1d

PERIMETER MONITOR WELL LOGS

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW1B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-30 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
	76.30						mm			5 10 15 20 25		
0		Dense, light brown, fine to medium										
	75.4	SAND (SW)			SS	1	310	40				
1		-trace gravel										
		Very sound to moderately sound			HQ	2	100%	89%				BENTONITE GROUT
2		greyish pink MONZOGRANITE										
		-tertiary vertical fractures infilled with			HQ	3	100%	91%				
3		clay										
					HQ	4	100%	100%				BENTONITE PELLETS
4												
					HQ	5	100%	97%				
5												
					HQ	6	100%	75%				WELL SCREEN IN SAND PACK
6												
	69.3											
7		End of Hole										
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW2B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-04-23 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	71.57						mm			5 10 15 20 25		
0	71.4	ROOTMAT and TOPSOIL										
1		Very sound to fractured grey MONZOGRANITE -slight alteration -secondary inclined fracture chloritized at 6.7m depth			HQ	1	93%	83%				
2					HQ	2	100%	97%			3.0E-03	BENTONITE GROUT
3												
4					HQ	3	93%	80%				
5											5.7E-05	
6					HQ	4	100%	78%				BENTONITE PELLETS
7					HQ	5	82%	72%				
8					HQ	6	100%	98%			6.6E-06	WELL SCREEN IN SAND PACK
9	62.4				HQ	7	33%	0%				
		End of Hole										
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW3A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-01 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	62.92						mm			5 10 15 20 25		
0		Black PEAT and TILL										BENTONITE CHIPS
1	61.4											
2		Boulders and cobbles with a matrix of silty sand: TILL										WELL SCREEN IN SAND PACK
3	59.7											
		End of Hole										
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW3B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-02-27 TO 96-02-28 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	62.98						mm			5 10 15 20 25		
0	62.4	Black PEAT		▼	~~SS~~	~~1~~	~~150~~	~~PUSH~~				
1		Boulders and cobbles with matrix of silty sand: TILL			~~HQ~~	~~2~~	~~200~~	~~-~~				
					~~HQ~~	~~3~~	~~500~~	~~-~~				
2					HQ	4	460	37	S			
	60.2				~~HQ~~	~~5~~	~~50~~	~~38/100mm~~				BACKFILL
3		Very severely fractured to sound grey to pink MONZOGRANITE -unaltered to slightly altered			HQ	6	360	-				
4					HQ	7	88%	49%				
5												BENTONITE CHIPS
6					HQ	8	97%	79%				
7					HQ	9	100%	87%				WELL SCREEN IN SAND PACK
8	54.1				HQ	10	100%	100%				
9		End of Hole										
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW3C
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-04-22 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	62.94						mm			5 10 15 20 25		
0		Black PEAT and TILL		▲								
1	61.4											
2		Boulders and cobbles with matrix of silty sand: TILL										
3	59.9											
4		Moderately sound to severely fractured pink MONZOGRANITE -slightly to highly altered -fault zone chlorite gouge at 4.27m and 8.23m			HQ	1	84%	67%				
					HQ	2	95%	14%				
5					HQ	3	100%	28%			1.5E-04	
6					HQ	4	100%	18%				
7					HQ	5	100%	74%				BENTONITE GROUT
8					HQ	6	100%	33%				
9												
10					HQ	7	100%	62%			2.3E-03	
11												
12					HQ	8	100%	89%				
					HQ	9	92%	58%				BENTONITE PELLETS
13					HQ	10	100%	80%				
14												
15	47.4				HQ	11	100%	76%				WELL SCREEN IN SAND PACK
16		End of Hole										
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW4A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-02 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES: TYPE	SAMPLES: NUMBER	SAMPLES: RECOVERY	SAMPLES: N-VALUE OR RQD %	SAMPLES: OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	63.90						mm			5 10 15 20 25		
0	63.8	ROOTMAT and TOPSOIL										
	63.1	Brown, silty SAND and GRAVEL										
1		Silty SAND and GRAVEL with quartzite and granite boulders										BENTONITE GROUT
2												
3												BENTONITE PELLETS
4	59.3											WELL SCREEN IN SAND PACK
		End of Hole										
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW4B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-04-24 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
	63.83						mm			5 10 15 20 25		
0	63.7	ROOTMAT and TOPSOIL										
	63.1	Brown silty SAND and GRAVEL			AS	1	-	-				
1		Silty SAND and GRAVEL with quartzite and granite boulders										
2												
3												
4					HQ	2	50	0%				
					~~HQ~~	~~3~~	~~50~~	~~0%~~				
5					HQ	4	254	25%				
	58.3				HQ	5	31%	0%				BENTONITE GROUT
6		Sound to very severely fractured, grey to orange MONZOGRANITE			HQ	6	100%	0%				
		-slightly altered			~~HQ~~	~~7~~	~~97%~~	~~67%~~				
7		-some fractures silt infilled, Fe/Mn stained			HQ	8	99%	56%				
8												
9					HQ	9	100%	80%				BENTONITE PELLETS
					HQ	10	100%	90%				
10												
11					HQ	11	100%	72%				WELL SCREEN IN SAND PACK
	51.6				HQ	12	100%	79%				
12		End of Hole										
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW5A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-03 96-06-04 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY mm	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
	65.15									5 10 15 20 25		
0	65.0	ROOTMAT and TOPSOIL										BENTONITE GROUT
1		Very dense, brown silty SAND some gravel and boulders										
2				▼								WELL SCREEN IN SAND PACK
	62.4											
3		End of Hole										
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW5B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-04-26 TO 96-04-27 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	65.20						mm			5 10 15 20 25		
0	65.0	ROOTMAT and TOPSOIL			SS	1	460	15				BENTONITE GROUT
	64.7	Compact, brown silty SAND			SS	2	250	56				
1	64.0	Granitic SAND and PEBBLES										
		Granitic BOULDERS and silty sand		▼	HQ	3	860	100%				
2												
	62.3				HQ	4	810	14%				
3	62.0	Granite and quartzite PEBBLES and BOULDERS			HQ	5	55%	28%				BENTONITE PELLETS
		Fractured to very severely fractured grey MONZOGRANITE -slight to no alteration			HQ	6	93%	47%				
4												
					HQ	7	97%	57%				
5					HQ	8	100%	0%				
					HQ	9	20%	0%				WELL SCREEN IN SAND PACK
6												
					HQ	10	83%	31%				
7					HQ	11	28%	0%				
	57.1				HQ	12	67%	0%				
8		End of Hole										
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW5C
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-03 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
	65.20						mm			5 10 15 20 25		
0	65.0	ROOTMAT and TOPSOIL										
1		Very dense, brown silty SAND -some gravel and boulders										
2	62.5											
3		Very sound to very severely fractured grey to orange MONZOGRANITE -slight to no alteration -some fractures brown silt infill, Fe/Mn stained			HQ	1	62%	0%				
4					HQ	2	44%	0%				
5					HQ	3	45%	32%				
6					HQ	4	41%	0%				
7					HQ	5	43%	0%				BENTONITE GROUT
8					HQ	6	73%	28%				
9					HQ	7	100%	57%				
10					HQ	8	100%	100%				
11												
12					HQ	9	93%	100%				
13												
14					HQ	10	100%	97%				WELL SCREEN IN SAND PACK
15	49.7				HQ	11	96%	82%				
16		End of Hole										
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW6A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-05 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES: TYPE	SAMPLES: NUMBER	SAMPLES: RECOVERY	SAMPLES: N-VALUE OR RQD %	SAMPLES: OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
	64.00						mm			5 10 15 20 25		
0	63.9	ROOTMAT and TOPSOIL										
		Dense brown silty sand: TILL (SM) -some boulders and trace gravel										BACKFILL
4												BENTONITE CHIPS
5												WELL SCREEN IN SAND PACK
7	56.7	End of Hole										
8												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW6B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-04-28 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	63.83						mm			5 10 15 20 25		
0	63.7	ROOTMAT and TOPSOIL			AS	1	-	-				
1		Compact to dense brown silty sand: TILL (SM) -some boulders and trace gravel										
2					SS	2	610	46				
3												
4					SS	3	280	17				BENTONITE GROUT
5												
6	57.4				SS	4	250	42				
7		Very sound to fractured pink to grey MONZOGRANITE -slightly altered -fractures infilled with brown silt to 11.1m, some chlorite and Fe/Mn staining			~~SS~~ HQ	~~5~~ 6	~~460~~ 62%	~~59~~ 50%				
8					HQ	7	100%	100%			9.9E-04	
9					HQ	8	90%	67%				BENTONITE PELLETS
10					HQ	9	99%	90%			6.0E-04	
11											4.6E-04	WELL SCREEN IN SAND PACK
12	51.2				HQ	10	100%	97%				
13		End of Hole										
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW7A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-05 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES: TYPE	SAMPLES: NUMBER	SAMPLES: RECOVERY	SAMPLES: N-VALUE OR RQD %	SAMPLES: OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	52.69						mm			5 10 15 20 25		
0		ROOTMAT and brown-black SILT										BACKFILL
	51.8	with organic material										
1		Granite and greywacke BOULDERS										BENTONITE CHIPS
2												
3												WELL SCREEN IN SAND PACK
4	48.6											
		End of Hole										
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW7B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-03 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	52.79						mm			5 10 15 20 25		
0		ROOTMAT and brown-black Silt, with										
	51.9	organic material										
1		Granite and greywacke BOULDERS										
2												
3												
4												BENTONITE GROUT
5												
6												
7												
	44.7											
8		Very sound to fractured grey-orange			HQ	1	90%	100%				
9		MONZOGRANITE -slightly altered			HQ	2	77%	71%				
10					HQ	3	98%	73%				BENTONITE PELLETS
11												
12					HQ	4	99%	77%				WELL SCREEN IN SAND PACK
	40.1											
13		End of Hole										
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW7C
PAGE 1 of 2
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-04-29 TO 96-04-30 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	53.05						mm			5 10 15 20 25		
0		ROOTMAT and brown-black SILT		▼								
	52.1	with organic material										
1		Granite and greywacke BOULDERS			AS	1	-	-				
2												
3												
4												
5												
6												
7												BENTONITE GROUT
	45.0											
8		Very sound to very severely fractured										
9		pink-orange to grey MONZOGRANITE			HQ	2	84%	17%				
10		-slightly altered			HQ	3	100%	74%				
		-some fractures infilled with silt, some Fe/Mn staining			HQ	4	86%	48%			2.7E-03	
11		-some pegmatitic zones			HQ	5	60%	0%				
12					HQ	6	83%	0%				
					HQ	7	100%	46%			2.3E-04	
13					HQ	8	92%	78%			9.4E-05	
14												
15					HQ	9	99%	75%				
16					HQ	10	100%	85%			7.4E-04	
17												BENTONITE PELLETS
18					HQ	11	100%	100%				
19					HQ	12	100%	98%			7.6E-05	
20												WELL

Continued Next Page

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW7C
PAGE 2 of 2
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-04-29 TO 96-04-30 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
		Continued from Previous Page					mm			5 10 15 20 25		
20												
21					HQ	13	97%	70%				SCREEN IN SAND PACK
	31.4											
22		End of Hole										
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW8A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-05 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES: TYPE	SAMPLES: NUMBER	SAMPLES: RECOVERY	SAMPLES: N-VALUE OR RQD %	SAMPLES: OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	49.66						mm			5 10 15 20 25		
0	49.4	ROOTMAT										BACKFILL
1		Dense, tan silty sandy GRAVEL with boulders										BENTONITE
2	47.1											WELL SCREEN
3		End of Hole										
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW8B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-05 WATER LEVEL 96/05/22

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	49.70						mm			5 10 15 20 25		
0	49.4	ROOTMAT										
1		Dense tan silty sandy GRAVEL with boulders			GS	1	-	-				BENTONITE GROUT
2	47.3				SS	2	440	46				
3		Very sound to severely fractured pink to grey MONZOGRANITE -slightly altered			HQ	3	100%	33%				BENTONITE PELLETS
4					HQ	4	100%	97%				
5					HQ	5	100%	95%				WELL SCREEN IN SAND PACK
6	43.3											
7		End of Hole										
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW8C
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-06 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	49.63						mm			5 10 15 20 25		
0	49.3	ROOTMAT										
1		Dense tan silty sandy GRAVEL with boulders										
2	47.0											
3		Very sound to fractured grey to orange MONZOGRANITE			HQ	1	100%	80%				
4		-slightly altered			HQ	2	100%	90%				BENTONITE GROUT
5		-fracture infill of some grey and brown silt, minor Fe/Mn staining			HQ	3	100%	100%				
6		-strong orange colouring at 8.5m depth associated with moderate fractures										
7					HQ	4	97%	87%				
8												
9					HQ	5	100%	72%				BENTONITE PELLETS
10					HQ	6	97%	97%				
11												WELL SCREEN IN SAND PACK
12	37.3				HQ	7	100%	100%				
		End of Hole										
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW9A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-06 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	64.37						mm			5 10 15 20 25		
0		Granitic BOULDER		▼								BENTONITE CHIPS
	63.5											
1		Dense tan silty sand: TILL (SM) -trace gravel										
2												WELL SCREEN IN SAND PACK
	61.3											
3		End of Hole										
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW9B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-07 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	64.08						mm			5 10 15 20 25		
0		GRANITIC boulders										
	63.2											
1		Dense, tan silty sand: TILL (SM) -trace gravel		▼	GS	1	-	-				
2					SS	2	550	47				BENTONITE GROUT
	61.6											
3		Sound to very severely fractured pink to grey MONZOGRANITE -slight to no alteration -fractures Fe stained			HQ	3	0	-				BENTONITE PELLETS
					HQ	4	0	-				
4					HQ	5	100%	26%				
5					HQ	6	100%	24%				WELL SCREEN IN SAND PACK
					HQ	7	84%	84%				
6					HQ	8	100%	80%				
	57.2											
7		End of Hole										
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW10B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-07 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	77.82						mm			5 10 15 20 25		
0		Dense brown sandy silt to silty sand: TILL (SM) -some gravel		▼								
1	76.3											
2		Fractured to severely fractured pink to orange MONZOGRANITE -slight dissolution alteration -fractures infilled with silt and Fe/Mn stained			HQ	1	100%	31%				BENTONITE GROUT
3					HQ	2	100%	32%				
4					HQ	3	100%	57%				
5												
6					HQ	4	100%	-				WELL SCREEN IN SAND PACK
7	70.7				HQ	5	100%	83%				
		End of Hole										
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW10C
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-08 TO 96-05-15 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
	77.89						mm			5 10 15 20 25		
0		Dense brown sandy silt to silty sand:			GS	1	-	-				
1	76.7	TILL (SM)			SS	2	150	65/127				
2		Very sound to fractured pink MONZOGRANITE -slightly altered -some fractures show clay/silt infill, Fe/Mn staining			HQ	3	66%	18%				
					HQ	4	100%	19%				
3					HQ	5	100%	61%				
					HQ	6	92%	17%				
4					HQ	7	92%	17%				
					HQ	8	89%	44%			4.7E-05	
5					HQ	9	100%	53%				
					HQ	10	92%	57%				BENTONITE GROUT
6												
7					HQ	11	100%	58%			4.4E-05	
8												
9					HQ	12	100%	26%				
					HQ	13	92%	28%				
10												
11					HQ	14	100%	33%				
					HQ	15	72%	48%				
12					HQ	16	100%	26%				BENTONITE PELLETS
13												
					HQ	17	99%	33%			1.2E-04	
14					HQ	18	100%	23%				WELL SCREEN IN SAND PACK
15	62.4				HQ	19	100%	37%				
		End of Hole										
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW11B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-07 TO 96-06-08 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	94.82						mm			5 10 15 20 25		
0	94.4	ROOTMAT										
1		Very sound to very severely fractured grey MONZOGRANITE -slightly altered -alteration decreases with depth -fractures with brown silt infill decreasing with depth, Fe/Mn staining		▼	HQ	1	100%	14%				
2					HQ	2	100%	62%				BENTONITE GROUT
3												
4					HQ	3	97%	86%				BENTONITE PELLETS
5												
6					HQ	4	100%	93%				
7					HQ	5	97%	97%				
8												WELL SCREEN IN SAND PACK
9	85.2				HQ	6	95%	95%				
10		End of Hole										
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW12B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-08 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	97.59						mm			5 10 15 20 25		
0	97.0	Brown sandy SILT, some gravel			AS	1	-	-				
1		Very sound to fractured pink to grey MONZOGRANITE -pink and slightly altered to 3.35m -grey and unaltered below 3.35m -fractures infilled with brown and grey silt, minor Fe/Mn staining		▼	HQ	2	95%	60%				
2					HQ	3	84%	66%				BENTONITE GROUT
3												
4					HQ	4	95%	95%				BENTONITE PELLETS
5					HQ	5	100%	100%				
6												
7					HQ	6	99%	86%				WELL SCREEN IN SAND PACK
8	88.6				HQ	7	100%	100%				
9		End of Hole										
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW13B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-20 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	95.27						mm			5 10 15 20 25		
0	94.7	ROOTMAT and loose grey sandy SILT										
1	93.7	Compact, red-brown sandy clay: TILL -some gravel										
2		Sound to fractured pink to grey MONZOGRANITE -slightly altered -fractures Fe stained, some hematite			HQ	1	76%	59%				BENTONITE GROUT
3					HQ	2	97%	83%				BENTONITE PELLETS
4												
5					HQ	3	97%	62%				WELL SCREEN IN SAND PACK
6	89.1				HQ	4	97%	67%				
7		End of Hole										
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW13C
PAGE 1 of 3
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-15 TO 96-05-19 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	95.32						mm			5 10 15 20 25		
0	94.7	ROOTMAT and loose grey sandy SILT		▼	SS	1	203	0				
1	93.8	Compact, red-brown sandy clay: TILL (CL)			SS	2	432	12				
		-some gravel			HQ	3	94%	80%				
2		Very sound to severely fractured pink to grey MONZOGRANITE			HQ	4	53%	53%				
3		-slightly to highly altered			HQ	5	100%	48%				BENTONITE GROUT
4		-highly altered pink-grey at 3.0-4.5m			HQ	6	99%	66%			8.9E-04	
5												
6		-moderately to highly altered orange-grey with red hematite coating on fractures at 6.1-6.7m			HQ	7	92%	48%			0.0E0	
7					HQ	8	100%	82%				
8					HQ	9	91%	92%				
9		-moderately altered grey-orange, hematite in fractures at 8.5-9.8m			HQ	10	99%	32%			3.4E-04	BENTONITE PELLETS
10					HQ	11	95%	73%				
11												WELL SCREEN IN SAND PACK
12					HQ	12	93%	85%			6.7E-04	
13		-moderately to highly altered grey-orange, hematite in fractures at 13.0-14.1m			HQ	13	100%	35%				BENTONITE PELLETS
14					HQ	14	100%	98%				SAND
15		-slight to no alteration from 15.0m to end of hole (45.0m)			HQ	15	100%	100%			0.0E0	
16					HQ	16	98%	89%				
17												
18					HQ	17	100%	92%			0.0E0	
19												
20					HQ	18	97%	73%				

Continued Next Page

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW13C
PAGE 2 of 3
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-15 TO 96-05-19 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
		Continued from Previous Page					mm			5 10152025		
20												
21					HQ	19	100%	92%				
22					HQ	20	97%	93%				
23					HQ	21	100%	100%			0.0E0	
24					HQ	22	-	-				
25												
26					HQ	23	-	-				
27												
28					HQ	24	100%	100%				
29					HQ	25	97%	100%			0.0E0	
30					HQ	26	92%	67%				
31					HQ	27	100%	100%				
32					HQ	28	97%	75%				SAND
33					HQ	29	-	-			0.0E0	
34					HQ	30	100%	87%				
35					HQ	31	97%	100%			0.0E0	
36												
37												
38												
39												
40												

Continued Next Page

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW13C
PAGE 3 of 3
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-15 TO 96-05-19 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
		Continued from Previous Page					mm			5 10 15 20 25		
40												
41					HQ	32	100%	100%				
42											0.0E0	
43					HQ	33	93%	93%				
44					HQ	34	100%	93%				
45	50.3	End of Test Pit										
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW14A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-09 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	107.42						mm			5 10 15 20 25		
0	106.8	ROOTMAT and loose brown sandy SILT			SS	1	360	3				
1		Loose red-brown silty clay, some sand and gravel: TILL			SS	2	450	9				BENTONITE CHIPS
2					SS	3	450	8				
3	104.4	Compact red-brown silty clay, trace sand and gravel: TILL			SS	4	610	20				
4												
5					AS	5	-	-				WELL SCREEN IN SAND PACK
	101.6											
6		End of Hole										
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW14B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-09 TO 96-06-11 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	107.42						mm			5 10152025		
0	106.8	ROOTMAT and loose brown sandy SILT										
1		Loose red-brown silty clay, some sand and gravel: TILL		▼								BENTONITE CHIPS
2												
3	104.4											
4		Compact red-brown silty clay, trace sand and gravel: TILL										
5												
6												
7												
8												
9												
10												
11												
12												
13	94.3				AS	1	-	-				
14		Fractured to very severely fractured, grey to light orange MONZOGRANITE -moderate to high alteration -some fractures infilled with brown silt, Fe staining	+ + +		HQ	2	92%	64%				
15			+ + +		HQ	3	67%	52%				
16			+ + +		HQ	4	75%	8%				BENTONITE PELLETS
17			+ + +		HQ	5	100%	47%				
18			+ + +		HQ	6	88%	39%				WELL SCREEN IN SAND PACK
19			+ + +									
20	87.8	End of Hole										

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW15A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-02-26 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES: TYPE	SAMPLES: NUMBER	SAMPLES: RECOVERY	SAMPLES: N-VALUE OR RQD %	SAMPLES: OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	108.58						mm			5 10 15 20 25		
0	108.3	Loose brown clayey silty SAND (SM-SC)										
1		Stiff to very stiff reddish brown sandy clay: TILL (CL)										BACKFILL
2												BENTONITE CHIPS
3				▼								WELL SCREEN IN SAND PACK
4	104.4											
		End of Hole										
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW15B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-02-26 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	108.51						mm			5 10 15 20 25		
0	108.2	Loose brown clayey silty SAND (SM-SC)			SS	1	530	13				
1		Stiff to very stiff reddish brown sandy clay: TILL (CL)										
2					SS	2	610	17	S H			
3				▼	SS	3	580	24				BACKFILL
4												
5	103.0				SS	4	610	22	S H			
6		Very sound to fractured grey MONZOGRANITE		▽	HQ	5	100%	86%				
7					HQ	6	100%	57%				BENTONITE AND BACKFILL
8												
9					HQ	7	100%	78%				
10					HQ	8	100%	100%				WELL SCREEN IN SAND PACK
11	97.0											
12		End of Hole										
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW15C
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-04-19 TO 96-04-20 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	108.57						mm			5 10 15 20 25		
0		Brown clay: TILL -some silt and gravel										
5	103.1											
6		SAND and SILT with granite boulders/chips		▼								
7	101.0											
8		Very sound to fractured grey MONZOGRANITE -slightly to moderately altered to depth			HQ	1	100%	87%			6.3E-04	BENTONITE GROUT
9												
10					HQ	2	95%	83%			4.7E-03	
11												
12					HQ	3	100%	79%			2.8E-05	
13												
14					HQ	4	95%	68%			7.2E-04	BENTONITE PELLETS
15												
16					HQ	5	93%	65%			8.0E-04	
17												
18	90.6				HQ	6	100%	97%			2.6E-03	WELL SCREEN IN SAND PACK
19		End of Hole			HQ	7	70%	53%				
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW16A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-29 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	100.39						mm			5 10 15 20 25		
0	100.2	Moist loose brown silty SAND, some gravel and organic material			SS	1	500	8				BENTONITE GROUT
1		Compact red-brown sandy silt and clay, some gravel: TILL			SS	2	280	22				
2				▼	SS	3	610	14				BENTONITE PELLETS
3					SS	4	500	29				
4	95.8				~~SS~~	~~5~~	~~50~~	~~25/5~~				WELL SCREEN IN SAND PACK
5	95.7	Weathered GRANITIC bedrock										
		End of Test Pit										
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW16B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-29 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	100.40						mm			5 10 15 20 25		
0		Compact red-brown sandy silt and clay: TILL										BENTONITE GROUT
4	96.0											
5		Sound to fractured grey MONZOGRANITE -slight to moderate alteration -minor Fe/Mn staining on fractures			HQ	1	92%	71%				BENTONITE PELLETS
6					HQ	2	99%	82%				
7					HQ	3	100%	77%				WELL SCREEN IN SAND PACK
9					HQ	4	84%	60%				
10	89.7				HQ	5	71%	57%				
11		End of Hole										
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW17A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-28 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	97.47						mm			5 10 15 20 25		
0		Compact brown sandy silt, some clay and gravel: TILL										BENTONITE GROUT
1	96.3											
2		Very sound to very severely fractured MONZOGRANITE		▼								BENTONITE PELLETS
3	93.8											WELL SCREEN IN SAND PACK
4		End of Hole										
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW17B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-27 TO 96-05-28 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	97.45						mm			5 10 15 20 25		
0		Loose to compact brown sandy silt, some clay and gravel: TILL			SS	1	500	9				
1	96.4				SS	2	300	31/279				
2		Very sound to very severely fractured grey MONZOGRANITE -slightly altered -some fractures infilled with brown silt, Fe/Mn stained		▽	HQ	3	98%	98%				BENTONITE GROUT
3					HQ	4	92%	57%				
4					HQ	5	100%	65%				
5					HQ	6	8%	0%				BENTONITE PELLETS
6					HQ	7	74%	65%				
7					HQ	8	100%	70%				WELL SCREEN IN SAND PACK
8	89.4	End of Hole										
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW18B
PAGE 1 of 1
PROJECT No. 30000

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-27 WATER LEVEL 96/06/19

DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
	95.80						mm			5 10152025		
0		Dense brown clayey silt, some sand and gravel: TILL		▼								
1												
2	93.3											BENTONITE GROUT
3		Sound to very severely fractured grey to pink MONZOGRANITE -slightly altered -fractures infilled with silt from surface to 6.40m	+ + +		HQ	1	100%	70%				
4			+ + +		HQ	2	100%	88%				
5			+ + +		HQ	3	99%	78%				
6			+ + +									BENTONITE PELLETS
7			+ + +		HQ	4	50%	27%				
8			+ + +									WELL SCREEN IN SAND PACK
9	86.2		+ + +		HQ	5	62%	11%				
10		End of Hole										
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW18C
PAGE 1 of 2
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-21 TO 96-05-22 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	96.00						mm			5 10 15 20 25		
0		Compact brown clayey silt, some sand and gravel: TILL			SS	1	300	7				
1					SS	2	450	10				
	94.2				SS	3	610	18				
2		Very sound to severely fractured grey-orange MONZOGRANITE -slightly to highly altered			HQ	4	90%	61%				
3												
4					HQ	5	100%	73%				
5											1.5E-04	
6					HQ	6	99%	73%				BENTONITE GROUT
7					HQ	7	100%	95%				
8		-highly altered and fractured grey-orange at 8.2-8.8m										
9					HQ	8	99%	53%				
10					HQ	9	99%	98%				
11					HQ	10	100%	67%			1.6E-04	
12					HQ	11	100%	100%				
13					HQ	12	95%	95%				
14					HQ	13	99%	87%				
15					HQ	14	95%	77%				BENTONITE PELLETS
16												
17					HQ	15	95%	95%			2.3E-04	WELL SCREEN IN SAND PACK
18					HQ	16	100%	100%				SAND
19												BENTONITE PELLETS
					HQ	17	97%	92%				
20												

Continued Next Page

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW18C
PAGE 2 of 2
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-21 TO 96-05-22 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
		Continued from Previous Page					mm			5 10152025		
20												
21					HQ	18	95%	78%				
22					HQ	19	100%	40%				
23					HQ	20	100%	48%				
24					HQ	21	100%	94%				SAND
25					HQ	22	100%	77%				
26												
27		-moderately to highly altered and grey-orange with red hematite fracture coating at 27.4-28.0m			HQ	23	97%	82%			0.0E0	
28					HQ	24	97%	70%				
29					HQ	25	95%	83%				
30					HQ	26	99%	62%				
31					HQ	27	100%	95%			0.0E0	
32					HQ	28	100%	85%				
33					HQ	29	97%	77%				
34					HQ	30	50%	-				
35												
36												
37												
38	57.0											
39		End of Hole										
40												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW19A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-05-30 TO WATER LEVEL 96/06/19

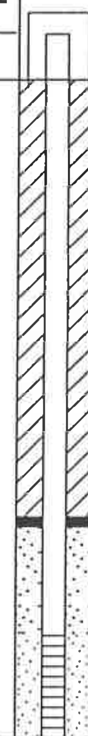
DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	82.10						mm			5 10 15 20 25		
0		OVERBURDEN		▼								BENTONITE GROUT
1												
2												BENTONITE PELLETS
3	78.9											WELL SCREEN IN SAND PACK
		End of Hole										
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW19B
PAGE 1 of 1
PROJECT No. 30000

CLIENT: MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
DRILLING METHOD: DIAMOND
LOCATION: SITE 'A'
SIZE: HQ
DATES (yy-mm-dd): BORING 96-05-30 WATER LEVEL 96/06/19
DATUM: GEODETIC

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY (mm)	N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE (5 10 15 20 25)	HYDRAULIC CONDUCTIVITY k(cm/sec)	WELL CONSTRUCTION DETAILS
0	82.10	OVERBURDEN		▼								
3	79.0	Very sound to sound grey MONZOGRANITE -slightly altered -pink from 7.3m to end of hole -vertical fractures filled with silt/clay			HQ	1	85%	88%				BENTONITE GROUT
					HQ	2	100%	92%				
					HQ	3	100%	94%				BENTONITE PELLETS
					HQ	4	97%	75%				WELL SCREEN IN SAND PACK
					HQ	5	100%	92%				
9.4	72.7	End of Hole										



Depth scale (m): 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW20A
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-01 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	67.97						mm			5 10 15 20 25		
0	67.8	Soft to compact brown SAND with organic material			SS	1	330	36				BENTONITE GROUT
1	67.6	Compact reddish brown SAND -trace silt -granite cobbles and boulders		▼	SS	2	150	50/0				BENTONITE PELLETS
2												WELL SCREEN IN SAND PACK
3	64.9	Compact light brown SAND and GRAVEL -granite cobbles and boulders			SS	3	0	REFUSAL				
4		End of Hole										
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW20B
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-02 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	68.05						mm			5 10 15 20 25		
0		Compact light brown SAND and GRAVEL -granite cobbles and boulders										
1												
2	65.7											
3		Very sound to fractured grey MONZOGRANITE -slight to no alteration -vertical fractures infilled with silt/clay			HQ	1	75%	72%				BENTONITE GROUT
4					HQ	2	80%	73%				
5												
6					HQ	3	100%	83%				
7												BENTONITE PELLETS
8					HQ	4	98%	73%				WELL SCREEN IN SAND PACK
9	58.6				HQ	5	100%	96%				
10		End of Hole										
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW21
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD DIAMOND
SIZE HQ
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-01-28 TO 96-01-29 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	64.02						mm			5 10 15 20 25		
0	63.7	ROOTMAT and TOPSOIL			SS	1	560	10				BENTONITE CHIPS
	63.3	Loose brown silty SAND with gravel (SM)			HQ	2	92%	30%				
1					HQ	3	45%	0%				
2		Very severely fractured grey MONZOGRANITE -slightly altered										WELL SCREEN IN SAND PACK
3	60.6	-weathered along fractures			HQ	4	39%	10%				
		End of Hole			HQ	5	100%	80%				
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW22
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-01 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	SAMPLES OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	62.90						mm			5 10152025		
0	62.8	ROOTMAT		▽	SS	1	250	34				BENTONITE CHIPS
1		Compact brown silty SAND and GRAVEL -some boulders										WELL SCREEN IN SAND PACK
2	60.5											
3		Compact to dense brown silty CLAY			GS	2	-	-				
4					GS	3	-	-				
5												
6					GS	4	-	-				
7	55.9											
		End of Hole										
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

BOREHOLE/WELL RECORD

BOREHOLE No. 96-MW23
PAGE 1 of 1
PROJECT No. 30000
DRILLING METHOD AUGER
SIZE 4"
DATUM GEODETIC

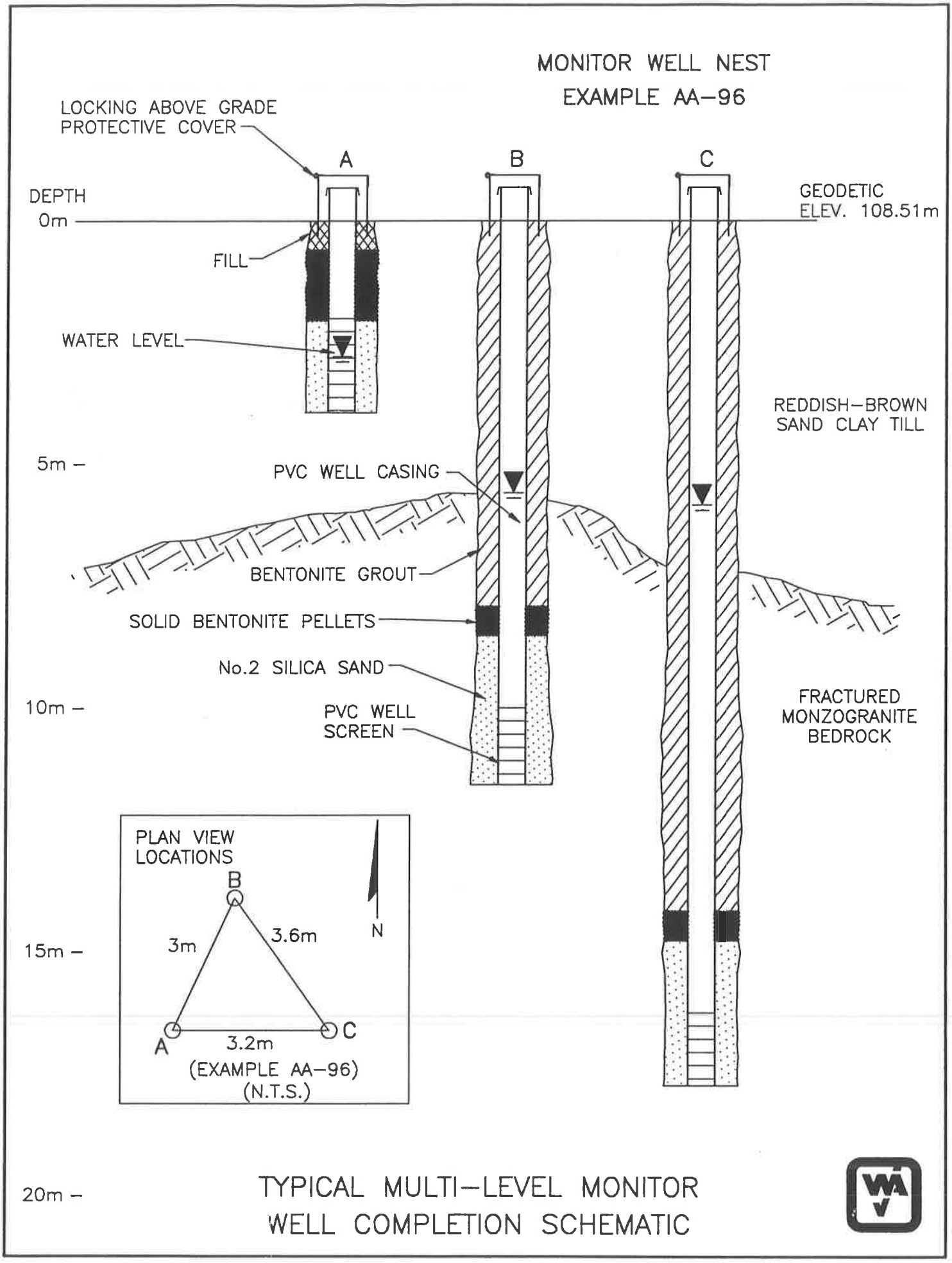
CLIENT MIRROR N.S. - RESIDUALS DISPOSAL FACILITY
LOCATION SITE 'A'
DATES (yy-mm-dd): BORING 96-06-04 TO 96-06-05 WATER LEVEL 96/06/19

DEPTH (m)	ELEVATION (m)	DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES N-VALUE OR RQD %	OTHER TESTS	FRACTURES PER METRE	HYDRAULIC CONDUCTIVITY k (cm/sec)	WELL CONSTRUCTION DETAILS
	62.63						mm			5 10 15 20 25		
0	62.0	ROOTMAT, SILT, SAND and GRAVEL			SS	1	100	4				
1					~~SS~~	~~2~~	~~150~~	~~75/203~~				
		Very dense brown silty SAND and GRAVEL										BENTONITE CHIPS
2	60.5				SS	3	610	63				
		Very dense brown SILT, some sand, clay and gravel										WELL SCREEN IN SAND PACK
3												
					SS	4	300	55				
4												
5	57.5				AS	5	-	-				
		End of Hole										
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

APPENDIX 2

TYPICAL MULTI-LEVEL MONITOR

WELL CONSTRUCTION DIAGRAM



30000\TS100404_SCHM.DWG 96/08/12

APPENDIX 3

HYDRAULIC TESTING DATA

APPENDIX 3a

TYPICAL PACKER TEST RESULTS

The Mirror Group
Residuals Disposal Facility
Goodwood Site A
Project No. 30000-100405

Phase I Hydrogeological Assessment

Packer Testing Hydraulic Conductivities

Location	Date	Test Interval			Hole Radius	Casing Height	Water Level Depth	Water Level	Constant Rate Average Packer Inflow		Pressure Gauge	Pressure Gauge Height	Packer Assembly Pressure Correction	Pump Pressure Head	Water Column Head	Total Added Head	Hydraulic Conductivity K	Geometric Mean K of Well
		Length	Zone	Median Depth														
		(m)	(m)	(mbg)	(m)	(mag)	(mbtoc)	(mbg)	(igpm)	(m^3/sec)	(psi)	(mag)	(psi)	(m)	(m)	(m)	(cm/sec)	(cm/sec)
96-MW2B	23-Apr-96	1.52	1.52 - 3.05	2.29	0.048	0.00	3.63	3.63	8.8	0.0006667	11	0.76	5.8	3.66	4.39	8.05	3.00E-03	
		1.52	4.27 - 5.79	5.03	0.048	0.00	3.63	3.63	0.31	2.349E-05	15	0.76	< 1	10.56	4.39	14.95	5.68E-05	
		1.52	7.32 - 8.84	8.08	0.048	0.00	3.63	3.63	0.036	2.728E-06	15	0.76	< 1	10.56	4.39	14.95	6.60E-06	
																		1.04E-04
96-MW3C	22-Apr-96	1.52	4.57 - 6.10	5.33	0.048	0.76	0.41	-0.35	0.4	3.031E-05	11	0.00	< 1	7.74	-0.35	7.39	1.48E-04	
		1.52	9.30 - 10.82	10.06	0.048	0.76	0.41	-0.35	5.4	0.0004091	11	0.00	1.5	6.69	-0.35	6.34	2.34E-03	
																		5.88E-04
96-MW6B	28-Apr-96	1.52	7.62 - 9.14	8.38	0.048	0.152	3.05	2.898	3.7	0.0002803	11	0.61	1.4	6.76	3.508	10.27	9.88E-04	
		1.52	9.14 - 10.67	9.91	0.048	0.152	3.05	2.898	2.3	0.0001743	10	0.61	< 1	7.04	3.508	10.55	5.98E-04	
		1.52	10.67 - 12.19	11.43	0.048	0.152	3.05	2.898	2.5	0.0001894	20	0.61	< 1	14.08	3.508	17.59	3.90E-04	
		1.52	10.67 - 12.19	11.43	0.048	0.152	3.05	2.898	2.0	0.0001515	12	0.61	< 1	8.45	3.508	11.96	4.59E-04	
																		5.70E-04
96-MW7C	30-Apr-96	3.20	9.14 - 12.19	10.67	0.048	0.46	0.97	0.51	8.2	0.0006213	10	0.76	4.9	3.59	1.27	4.86	2.67E-03	
		3.20	10.67 - 13.72	12.19	0.048	0.46	0.97	0.51	1.2	9.092E-05	10	0.76	< 1	7.04	1.27	8.31	2.29E-04	
		3.20	10.67 - 13.72	12.19	0.048	0.46	0.97	0.51	1.68	0.0001273	15	0.76	< 1	10.56	1.27	11.83	2.25E-04	
		3.20	11.58 - 14.63	13.11	0.048	0.46	0.97	0.51	0.7	5.304E-05	15	0.76	< 1	10.56	1.27	11.83	9.36E-05	
		3.20	14.63 - 17.67	16.15	0.048	0.46	0.97	0.51	3.9	0.0002955	10	0.76	< 1	7.04	1.27	8.31	7.43E-04	
		3.20	17.67 - 20.73	19.2	0.048	0.46	0.97	0.51	0.4	3.031E-05	10	0.76	< 1	7.04	1.27	8.31	7.62E-05	
		3.20	17.67 - 20.73	19.2	0.048	0.46	0.97	0.51	0.5	3.788E-05	15	0.76	< 1	10.56	1.27	11.83	6.69E-05	
																		2.42E-04
96-MW10C	15-May-96	3.20	3.05 - 5.94	4.34	0.048	0.78	1.32	0.54	0.35	2.652E-05	15	0.6	< 1	10.56	1.14	11.70	4.73E-05	
		3.20	6.10 - 8.99	7.39	0.048	0.78	1.32	0.54	0.36	2.728E-05	17	0.6	< 1	11.97	1.14	13.11	4.35E-05	
		3.20	11.89 - 15.09	13.49	0.048	0.78	1.32	0.54	0.9	6.819E-05	15	0.6	< 1	10.56	1.14	11.70	1.22E-04	
																		6.30E-05
96-MW13C	18-May-96	3.20	2.74 - 44.04	23.39	0.048	0.15	0.38	0.23	4.18	0.0003167	5	0.7	< 1	3.52	0.93	4.45	1.49E-03	
		3.20	2.74 - 5.94	4.34	0.048	0.15	0.38	0.23	2.5	0.0001894	5	0.7	< 1	3.52	0.93	4.45	8.89E-04	
		3.20	4.27 - 7.47	5.87	0.048	0.15	0.38	0.23	0	0	10	0.7	0.0	7.04	0.93	7.97	0.00E+00	
		3.20	7.32 - 10.52	8.92	0.048	0.15	0.38	0.23	2.43	0.0001841	15	0.7	< 1	10.56	0.93	11.49	3.35E-04	
		3.20	10.36 - 13.56	11.96	0.048	0.15	0.38	0.23	0.78	5.91E-05	25	0.7	< 1	17.60	0.93	18.53	6.66E-05	
		3.20	13.41 - 16.61	15.01	0.048	0.15	0.38	0.23	0	0	25	0.7	0.0	17.60	0.93	18.53	0.00E+00	
		3.20	16.46 - 44.04	30.25	0.048	0.15	0.38	0.23	0	0	35	0.7	0.0	24.64	0.93	25.57	0.00E+00	
		3.20	16.46 - 19.66	18.06	0.048	0.15	0.38	0.23	0	0	35	0.7	0.0	24.64	0.93	25.57	0.00E+00	
		3.20	22.56 - 25.76	24.16	0.048	0.15	0.38	0.23	0	0	40	0.7	0.0	28.16	0.93	29.09	0.00E+00	
		3.20	28.65 - 44.04	36.35	0.048	0.15	0.38	0.23	0	0	60	0.7	0.0	42.25	0.93	43.18	0.00E+00	
		3.20	28.65 - 31.85	30.25	0.048	0.15	0.38	0.23	0	0	60	0.7	0.0	42.25	0.93	43.18	0.00E+00	
		3.20	34.75 - 37.95	36.35	0.048	0.15	0.38	0.23	0	0	60	0.7	0.0	42.25	0.93	43.18	0.00E+00	
		3.20	37.78 - 41.00	39.39	0.048	0.15	0.38	0.23	0	0	60	0.7	0.0	42.25	0.93	43.18	0.00E+00	
		3.20	40.84 - 44.04	42.44	0.048	0.15	0.38	0.23	0	0	60	0.7	0.0	42.25	0.93	43.18	0.00E+00	2.71E-04

The Mirror Group
Residuals Disposal Facility
Goodwood Site A
Project No. 30000-100405

Phase I Hydrogeological Assessment

Packer Testing Hydraulic Conductivities

Location	Date	Test Interval			Hole Radius	Casing Height	Water Level Depth	Water Level	Constant Rate Average Packer Inflow		Pressure Gauge	Pressure Gauge Height	Packer Assembly Pressure Correction	Pump Pressure Head	Water Column Head	Total Added Head	Hydraulic Conductivity K	Geometric Mean K of Well
		Length	Zone	Median Depth														
		(m)	(m)	(mbg)	(m)	(mag)	(mbtoc)	(mbg)	(igpm)	(m^3 /sec)	(psi)	(mag)	(psi)	(m)	(m)	(m)	(cm/sec)	(cm/sec)
96-MW15C	20-Apr-96	1.52	8.53 - 10.06	9.3	0.048	0.10	5.0	4.9	2.76	0.0002091	10	0.00	< 1	7.04	4.9	11.94	6.34E-04	
		1.52	10.06 - 11.58	10.82	0.048	0.10	5.0	4.9	10.3	0.0007804	10	0.00	8.5	1.06	4.9	5.96	4.74E-03	
		1.52	11.58 - 13.11	12.34	0.048	0.10	5.0	4.9	0.12	9.092E-06	10	0.00	< 1	7.04	4.9	11.94	2.75E-05	
		1.52	13.11 - 14.63	13.87	0.048	0.10	5.0	4.9	3.14	0.0002379	10	0.00	< 1	7.04	4.9	11.94	7.21E-04	
		1.52	14.63 - 16.15	15.39	0.048	0.10	5.0	4.9	3.5	0.0002652	10	0.00	< 1	7.04	4.9	11.94	8.03E-04	
		1.52	16.15 - 17.68	16.92	0.048	0.10	5.0	4.9	8.19	0.0006205	10	0.00	4.8	3.70	4.9	8.60	2.61E-03	7.07E-04
96-MW18C	22-May-96	3.20	3.35 - 6.55	4.95	0.048	0.23	0.51	0.28	0.429	3.25E-05	5	0.75	< 1	3.52	1.03	4.55	1.49E-04	
		3.20	9.45 - 37.03	23.24	0.048	0.23	0.51	0.28	5	0.0003788	15	0.75	1.2	9.72	1.03	10.75	7.36E-04	
		3.20	9.45 - 12.65	11.05	0.048	0.23	0.51	0.28	1.2	9.092E-05	15	0.75	< 1	10.56	1.03	11.59	1.64E-04	
		3.20	15.54 - 37.03	26.29	0.048	0.23	0.51	0.28	4.29	0.000325	25	0.75	< 1	17.60	1.03	18.63	3.64E-04	
		3.20	15.54 - 18.75	17.15	0.048	0.23	0.51	0.28	2.73	0.0002068	25	0.75	< 1	17.60	1.03	18.63	2.32E-04	
		3.20	27.74 - 37.03	32.39	0.048	0.23	0.51	0.28	0	0	45	0.75	0.0	31.68	1.03	32.71	0.00E+00	
		3.20	27.74 - 30.94	29.34	0.048	0.23	0.51	0.28	0	0	45	0.75	0.0	31.68	1.03	32.71	0.00E+00	
		3.20	33.83 - 37.03	35.43	0.048	0.23	0.51	0.28	0	0	60	0.75	0.0	42.25	1.03	43.28	0.00E+00	1.78E-04

Notes:

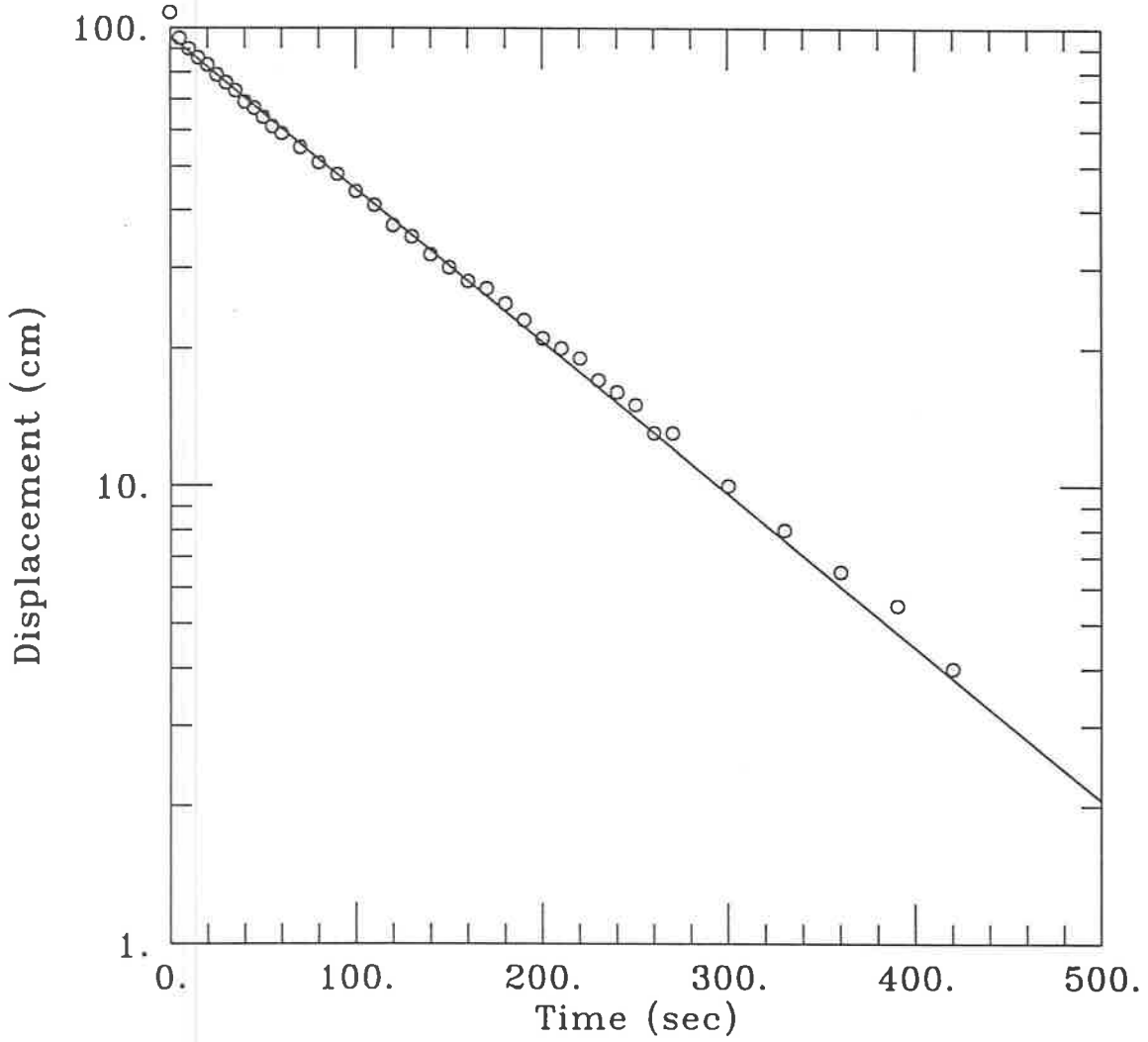
1 mbg = metres below ground; mag = metres above ground
2 mbtoc = metres below top of casing
3 igpm = imperial gallons per minute, psi = pounds per square inch
4 Pressure gauge reading in psi X 0.7041 = pump pressure head in metres of water
5 Total added head acting on test interval includes the pump pressure head and water column head.
6 Hydraulic conductivity calculated based on the following formula:
K (cm/s) = (Q/2*pi*L*H)* (lnL/r)*100 when L>10 r (reference Nielsen, 1991 "Groundwater Monitoring")
7 * = Test result for MW 2B (23-Apr-96; 5.03 m median depth) may be biased due to slightly leaking swivel head.
8 * = Test zone is entire hole to top of test interval.
9 The inflow rate is as an average over minimum period of five minutes, after a near constant rate has been obtained.
10 Packer assembly pressure loss corrections calculated from field calibration curves are insignificant for flow rates under 5 igpm (<1 psi) for 3.05 m and 1.52 m packer.

APPENDIX 3b

TYPICAL SLUG TEST RESULTS

Client: MIRROR GROUP	Company: JWEL
Location: SITE A, GOODWOOD, NS	Project: 30000-10405

MIRROR SITE A 96-MW-5C



DATA SET:
96MW5C.DAT
07/08/96

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

PROJECT DATA:
test date: JUNE 20, 1996
obs. well: 96-MW-5C

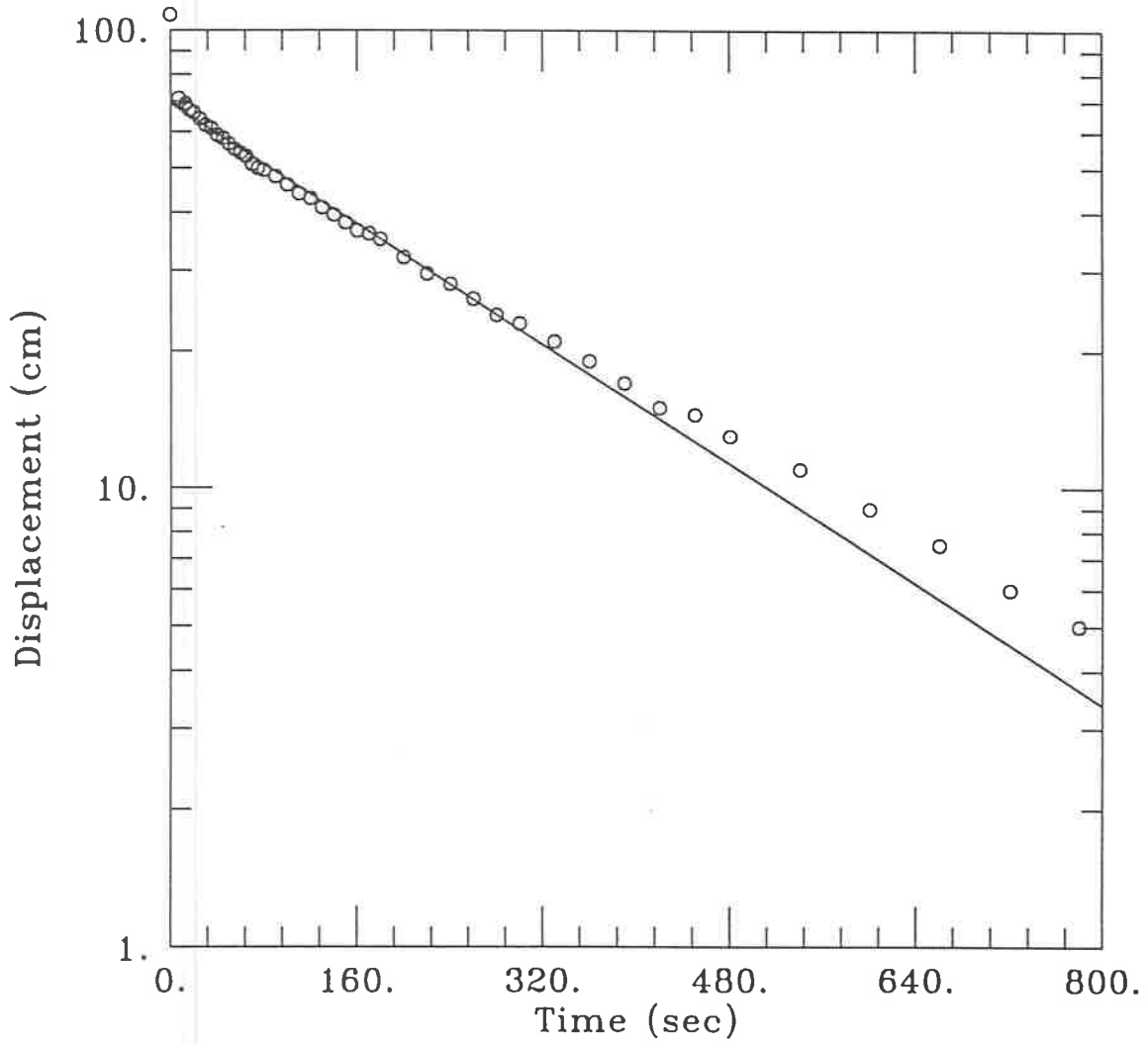
TEST DATA:
H0 = 108. cm
rc = 2.54 cm
rw = 5. cm
L = 305. cm
b = 1271. cm
H = 1271. cm

PARAMETER ESTIMATES:
K = 0.0003273 cm/sec
y0 = 95.81 cm

AQTESOLV

Client: MIRROR GROUP	Company: JWEL
Location: SITE A, GOODWOOD, NS	Project: 30000-10405

MIRROR SITE A 96-MW-7A



DATA SET:
96MW7A.DAT
07/08/96

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

PROJECT DATA:
test date: JUNE 21, 1996
obs. well: 96-MW-7A

TEST DATA:
H0 = 108. cm
rc = 2.54 cm
rw = 5. cm
L = 152. cm
b = 365. cm
H = 365. cm

PARAMETER ESTIMATES:
K = 0.000249 cm/sec
y0 = 69.06 cm

AQTESOLV

APPENDIX 4

GEOTECHNICAL TESTING

APPENDIX 4a

LABORATORY TESTING SUMMARY

Lab Testing Summary

Sample	Depth (m)	Moisture Content	% Gravel	% Sand	% Silt/Clay	% Clay	Plasticity Index
B1,Sa2	1.5	10.5	12	46	42	1	non-plastic
B1,Sa3	3	12.6	11	33	56	11	9.2
B1,Sa4	4.3	11.1	-	-	-	-	-
B1,Sa6	7	10.3	16	38	46	7	7.6
B1,Sa9	11.6	11	-	-	-	-	-
B1,Sa11	15.5	11.3	7	37	56	15	10.8
B1,Sa12	17.1	10.8	-	-	-	-	-
B1,Sa13	19.5	11.3	-	-	-	-	-
B1,Sa14	21.6	10.6	-	-	-	-	16.1
B2,Sa3	2.1	11.5	20	41	39	8	5.1
B2,Sa4	4	11.4	14	46	40	9	11
B2,Sa6	7	9	-	-	-	-	5.5
B2,Sa7	8.8	9	11	45	44	12	8.7
B2,Sa10	13.1	8.2	-	-	-	-	-
B2,Sa11	15.8	11.6	6	38	56	-	8.9
B2,Sa12	19.2	11.5	13	35	52	12	13.2
B2,Sa13	22.3	12.3	-	-	-	-	13.8
B3,Sa2	1.8	10.2	5	43	51	13	10
B3,Sa3	3.4	10.1	11	42	47	12	9.5
B3,Sa4	4.6	10.1	-	-	-	-	-
B3,Sa5	6.1	12.6	-	-	-	-	-
B3,Sa6	7.6	10.7	8	46	46	9	7.8
B3,Sa8	11.3	10.6	10	47	43	10	9.1
B3,Sa10	14.9	11.3	11	38	51	17	14.1
B3,Sa11	16.5	8.8	-	-	-	-	-
B3,Sa12	18	10.4	-	-	-	-	-
B3,Sa13	21	11	-	-	-	-	12.4
B4,Sa2	1.5	12.6	6	40	54	13	11.3
B4,Sa3	3.7	11.1	3	40	57	17	12.6

Sample	Depth (m)	Moisture Content	% Gravel	% Sand	% Silt/Clay	% Clay	Plasticity Index
B4,Sa5	8.2	10.6	-	-	-	-	13.8
B4,Sa6	10.7	13.4	-	-	-	-	-
B4,Sa7	13.7	14.1	-	-	-	-	-
B4,Sa8	16.8	13.1	10	33	57	19	14.5
B4,Sa9	19.8	11.5	-	-	-	-	17
B5,Sa2	1.5	11.7	13	37	49	12	8.7
B5,Sa3	4.3	10.2	16	39	45	12	11.8
B5,Sa5	8.5	11.6	-	-	-	-	14.3
B5,Sa6	11.9	11.7	-	-	-	-	14.7
B5,Sa7	14.9	11.8	8	37	55	17	14.1
B5,Sa8	16.5	10.9	-	-	-	-	12.7
TPB1,Sa1	0.8	12.3	18	37	45	11	8.2
TPB1,Sa2	2.6	10.4	22	36	42	9	2.7
TPB1,Sa3	4.3	9.7	19	36	45	10	6.5
TPB2,Sa1	1.5	11.6	24	36	40	9	7.5
TPB2,Sa2	3	11.1	25	34	41	12	10.4
TPB2,Sa3	4.6	10.7	25	31	44	12	10.2
RD1,Sa3	1.7	12.3	7	35	58	23	11.8
RD1, Sa4	2.3	12.8	1	37	62	-	12.4
RD1,Sa5	3	11.6	-	-	-	-	-
RD1,Sa6	3.6	9.6	-	-	-	-	-
RD1,Sa7	4.2	11.1	3	36	61	23	14.3
RD1,Sa8	4.8	11.3	4	35	61	20	-
RD1,Sa10	6.1	10.6	9	31	60	24	16.1
RD2,Sa2	1.9	12.6	5	35	60	-	-
RD2,Sa3	2.5	13.8	-	-	-	-	-
RD2,Sa4	3.4	11.4	4	36	60	22	16.1
RD2,Sa5	4.7	11.3	8	32	60	22	14.5
RD6,Sa2	2.1	8.4	24	65	11	2	
RD7,Sa2	1.5	11.9	9	46	45	10	5.4
RD7,Sa3	2.1	14	-	-	-	-	-

Sample	Depth (m)	Moisture Content	% Gravel	% Sand	% Silt/Clay	% Clay	Plasticity Index
RD7,Sa5A	3.7	12.8	-	-	-	-	-
RD8,Sa1B	0.4	17.2	12	62	26	-	-
RD8,Sa2	0.9	13.4	7	50	43	13	4.7
RD8,Sa4	2.1	14.2	1	36	63	22	16.2
RD8,Sa5	2.7	13.7	-	-	-	-	-
RD8,Sa6	3.4	11.3	8	36	56	20	17.2
RD9,Sa1C	0.5	14.8	-	-	-	-	-
RD9,Sa2A	0.8	16.8	8	48	44	-	2.1
RD9,Sa2B	1.1	13.6	-	-	-	-	-
RD9,Sa3	1.6	13.6	7	37	56	20	10.9
RD9,Sa4	2.3	14	-	-	-	-	-
RD9,Sa5	2.9	11.5	15	33	52	18	12.6
RD9,Sa6	3.6	11.9	-	-	-	-	-
RD10,Sa2A	0.8	16.8	14	62	24	-	-
RD10,Sa2B	1.1	14.5	5	37	58	-	8
RD10,Sa3	1.5	12.6	-	-	-	-	-
RD10,Sa4	2.1	14.1	9	37	54	13	9.3
RD11,Sa2B	0.88	9	-	-	-	-	-
RD12,Sa2A	0.81	15.4	-	-	-	-	-
RD13,Sa2A	0.74	12.4	5	44	51	-	-
RD13,Sa2B	1.33	14.4	4	36	60	-	9.5
RD13,Sa3	1.52	13.9	7	32	61	17	-
RD13,Sa4	2.13	15.7	4	33	63	18	15.5
RD13,Sa5A	2.59	13.4	2	30	68	-	-
RD14,Sa3	1.78	12.7	-	-	-	-	-
RD14,Sa5	3.56	11.2	15	33	52	18	12.8
RD14,Sa6	4.93	10.6	12	35	53	15	14.8
RD14,Sa7	6.45	10.2	28	27	45	15	-
RD14,Sa8B	7.98	11.3	-	-	-	-	12.3
RD15,Sa1C	0.46	20	13	41	46	-	-
RD15,Sa2B	1.01	15.9	8	37	55	-	11.6

Sample	Depth (m)	Moisture Content	% Gravel	% Sand	% Silt/Clay	% Clay	Plasticity Index
RD16,Sa2B	0.91	12.4	12	45	43	-	-
RD18,Sa1C	0.46	32.6	7	50	43	-	-
RD20,Sa1C	0.43	21.2	9	75	16	-	-
RD20,Sa4	2.64	12.7	-	-	-	-	-
RD21,Sa2A	0.74	16.5	15	55	30	-	-
RD22,Sa2	0.91	12.6	26	36	38	-	-
RD22,Sa3B	1.68	11.1	-	-	-	-	8.1
RD23,Sa3A	1.37	11.8	3	41	56	15	-
RD24,Sa2B	1.04	16.2	15	53	32	5	-
RD24,Sa3A	1.47	10.6	13	45	42	-	4.8
RD25,Sa3A	1.42	12.1	13	45	42	-	-
RD27,Sa3	1.14	12.7	12	56	32	-	-
RD28,Sa2	0.7	16.7	-	-	-	-	-
RD28,Sa3	1.54	11.1	7	54	39	-	-
RD28,Sa4A	2.03	9.8	16	45	39	-	-
RD29,Sa2	0.91	15.5	7	25	68	-	17.9
RD30,Sa1B	0.46	24.4	21	62	17	-	-
RD31,Sa2	0.84	14	15	60	25	-	-
RD31,Sa5	3.09	10.9	17	50	33	-	-
RD31,Sa6	4.73	11.6	14	46	40	-	-
RD32,Sa1	0.36	12.9	-	-	-	-	-
RD32,Sa2	1.52	11.8	11	36	53	13	11.5
RD32,Sa3	3.05	10.6	-	-	-	-	-
RD32,Sa4	4.57	11.3	12	34	54	13	11.1
RD33,Sa4A	1.68	10.9	24	66	10	-	-
RD34,Sa1C	0.44	14.2	16	61	23	-	-
TP101,Sa1	0.91	14.8	4	43	53	-	-
TP102,Sa1	0.53	27.1	1	35	64	-	non-plastic
TP103,Sa1	0.84	-	60	33	7	-	-
TP105,Sa1	0.61	15.5	33	47	20	-	-
TP106,Sa1	0.69	11.6	16	60	24	-	-

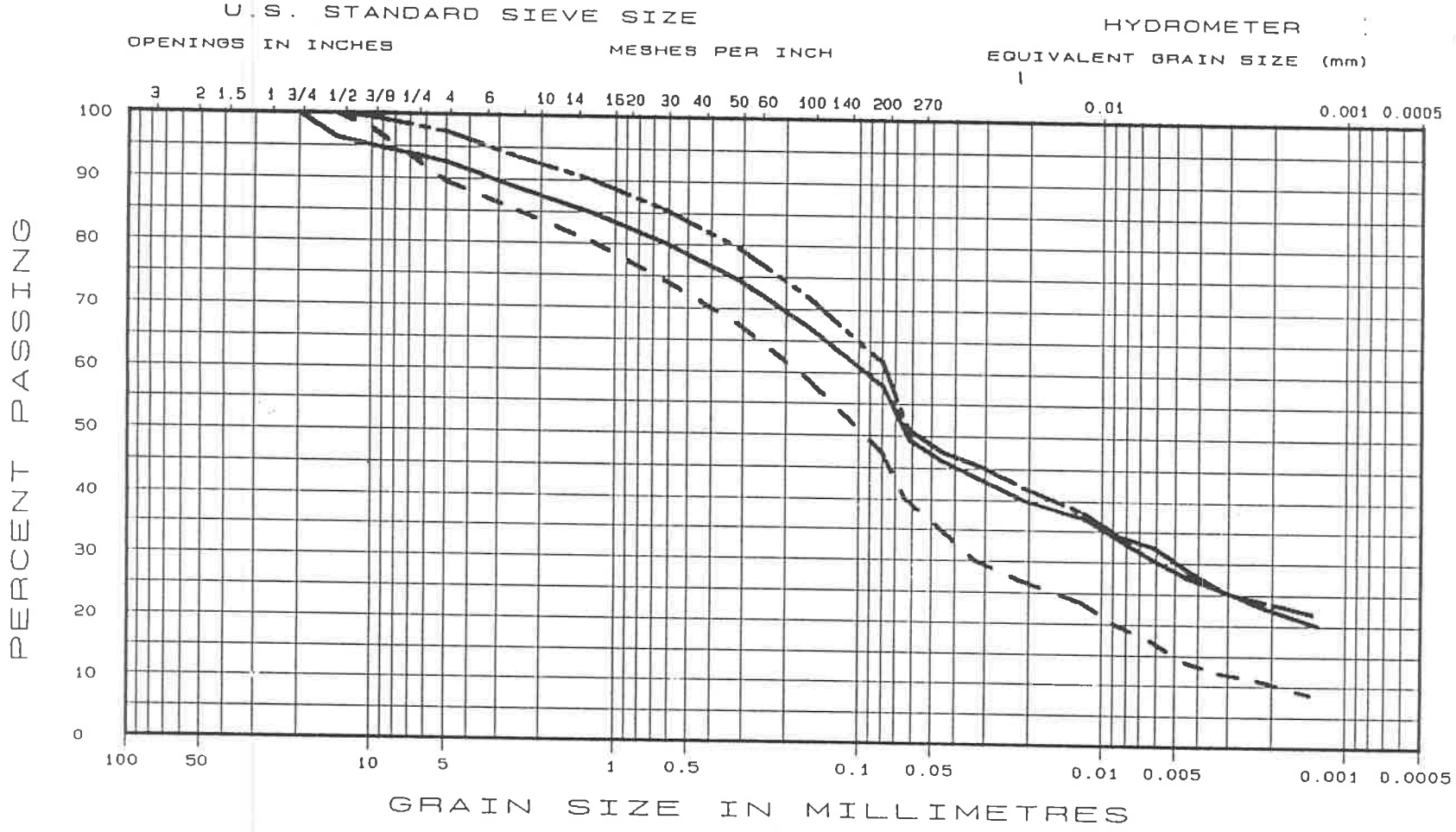
Sample	Depth (m)	Moisture Content	% Gravel	% Sand	% Silt/Clay	% Clay	Plasticity Index
TP110,Sa2	1.22	-	14	45	41	-	-
TP110,Sa4	3.81	11.7	14	43	43	-	7.5
TP114,Sa1	2.29	15.4	8	53	39	-	non-plastic
TP115,Sa1	0.91	13.7	22	66	12	-	-
TP117,Sa2	3.96	11.2	2	39	59	-	-
TP119,Sa1	3.35	9.5	15	40	45	-	-
TP120,Sa1	1.45	-	52	43	5	-	-
TP120,Sa2	3.96	-	14	38	48	-	-
TP121,Sa1	1.21	-	37	56	7	-	-
TP122,Sa1	1.37	11.9	9	37	54	-	3.7
TP123,Sa1	1.68	7.1	40	58	2	-	-
TP125,Sa1	1.22	-	14	51	35	-	-
TP127,Sa1	1.37	6.1	66	31	3	-	-
TP129,Sa2	3.81	10.7	25	43	32	-	-
TP129,Sa3	4.42	11.1	14	38	48	-	12.4
TP131,Sa1	1.67	10.4	16	44	40	-	-
TP133,Sa1	1.52	12.5	18	32	50	-	-
TP136,Sa1	2.13	15.3	3	41	56	-	9.1
TPRD4,Sa3	3.35	8.9	18	32	50	18	-
TPRD5,Sa2	0.56	13.6	13	38	49	16	-
TPRD5,Sa3	1.83	12.2	3	37	60	22	8.9
TPRD6,Sa1	1.07	15.3	17	61	22	3	-
TPRD8,Sa3	4.11	9.9	5	32	63	25	2.8
TPRD9,Sa2	1.07	8.5	41	45	14	-	-
TPRD9,Sa3	1.22	10.8	11	42	47	11	-
TPRD9,Sa4	2.29	10.6	21	62	17	2	-
TPRD10,Sa1	1.68	9.6	19	38	43	16	9.2

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APPENDIX 4b

GRAIN SIZE DISTRIBUTION

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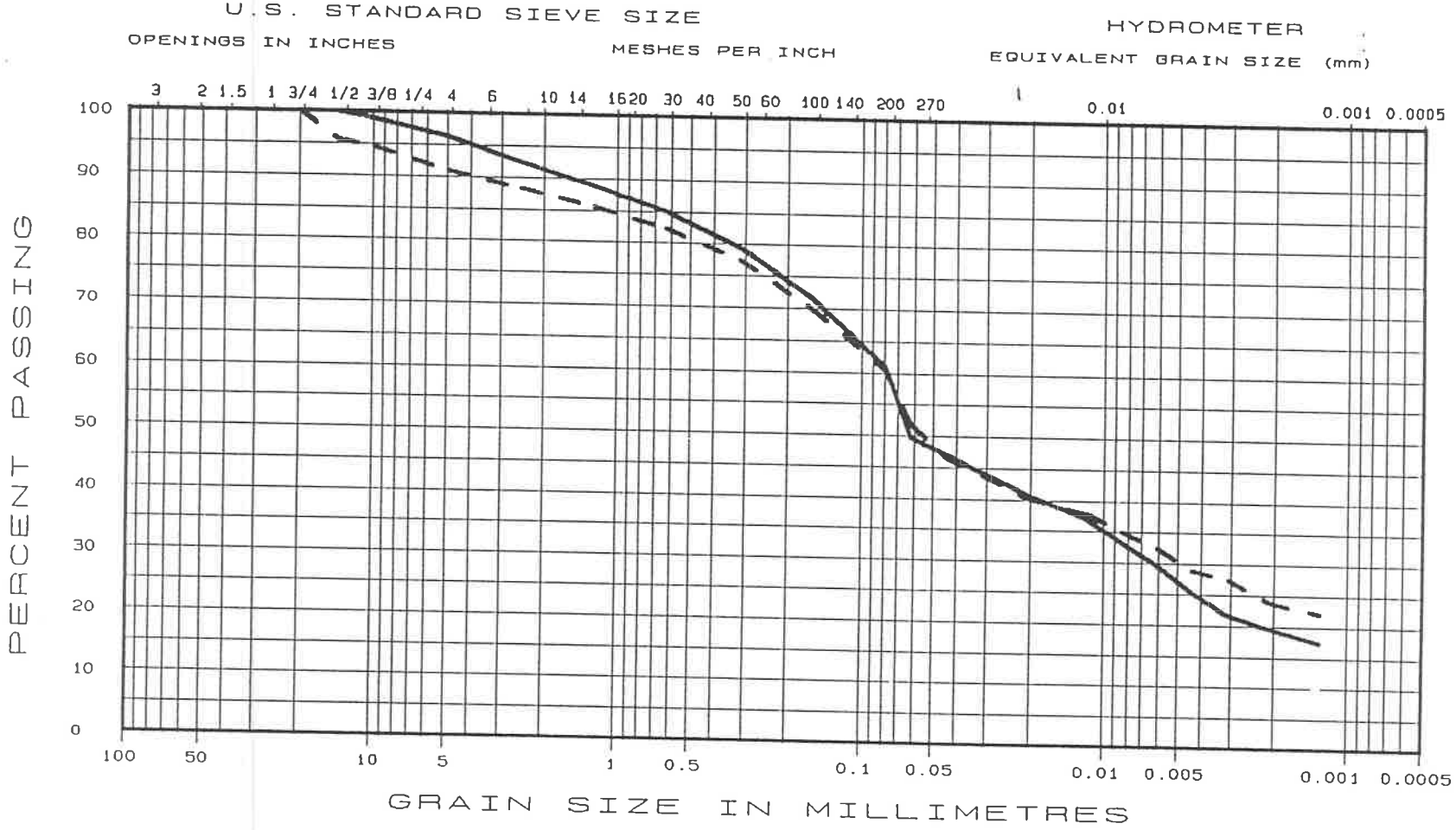
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 1	SA 3	1.7 m	Sandy Clay : TILL (CL)
– – –	RD 1	Sa 4	2.3	Sandy Clay : TILL (CL)
—·—	RD 1	Sa 7	4.2 m	Sandy Clay : TILL (CL)

FIGURE A4.b1

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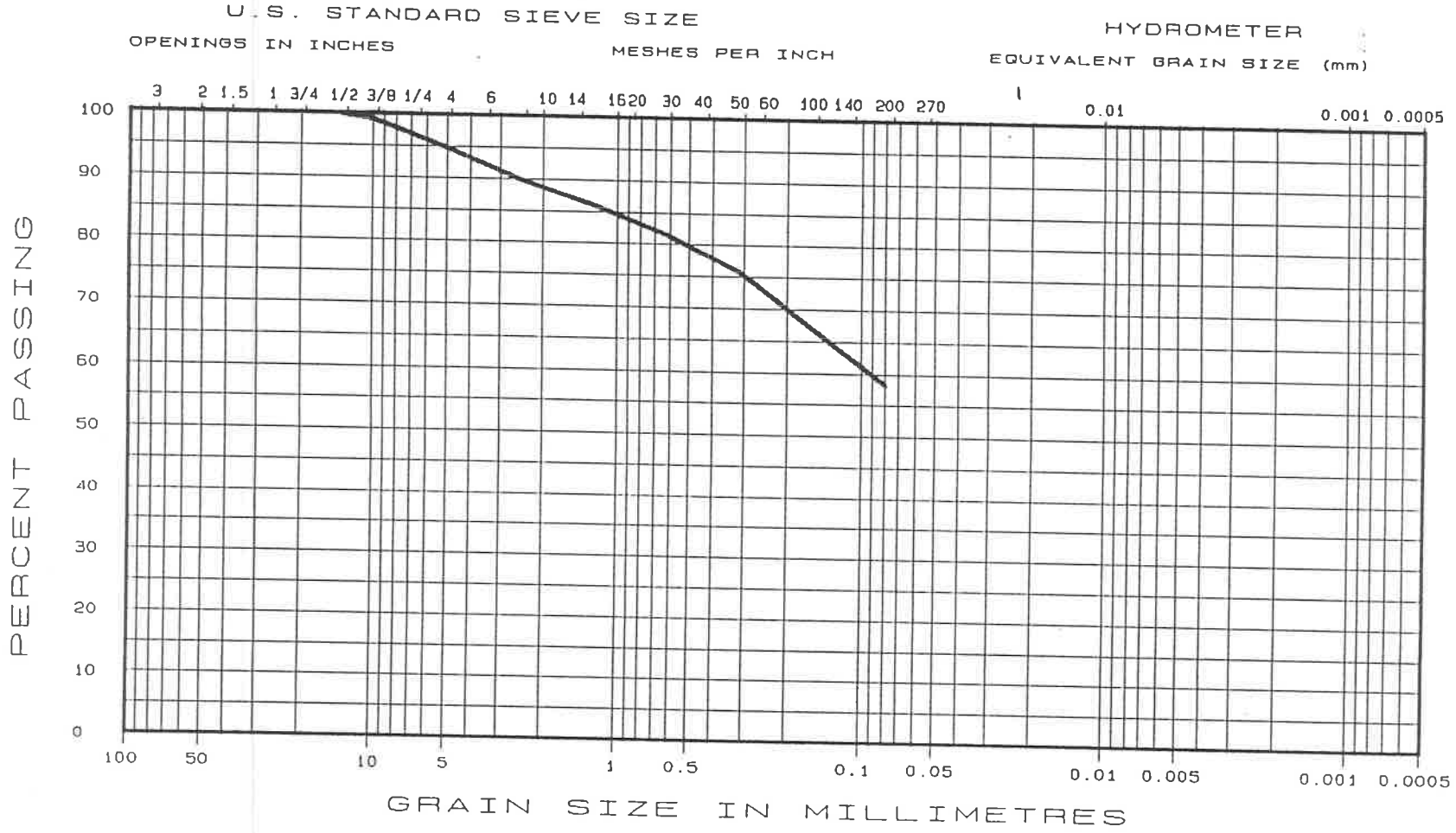
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 1	Sa 8	4.8 m	Sandy Clay : TILL (CL)
– – –	RD 1	Sa 10	6.1 m	Sandy Clay : TILL (CL)

FIGURE A4.b2

30000



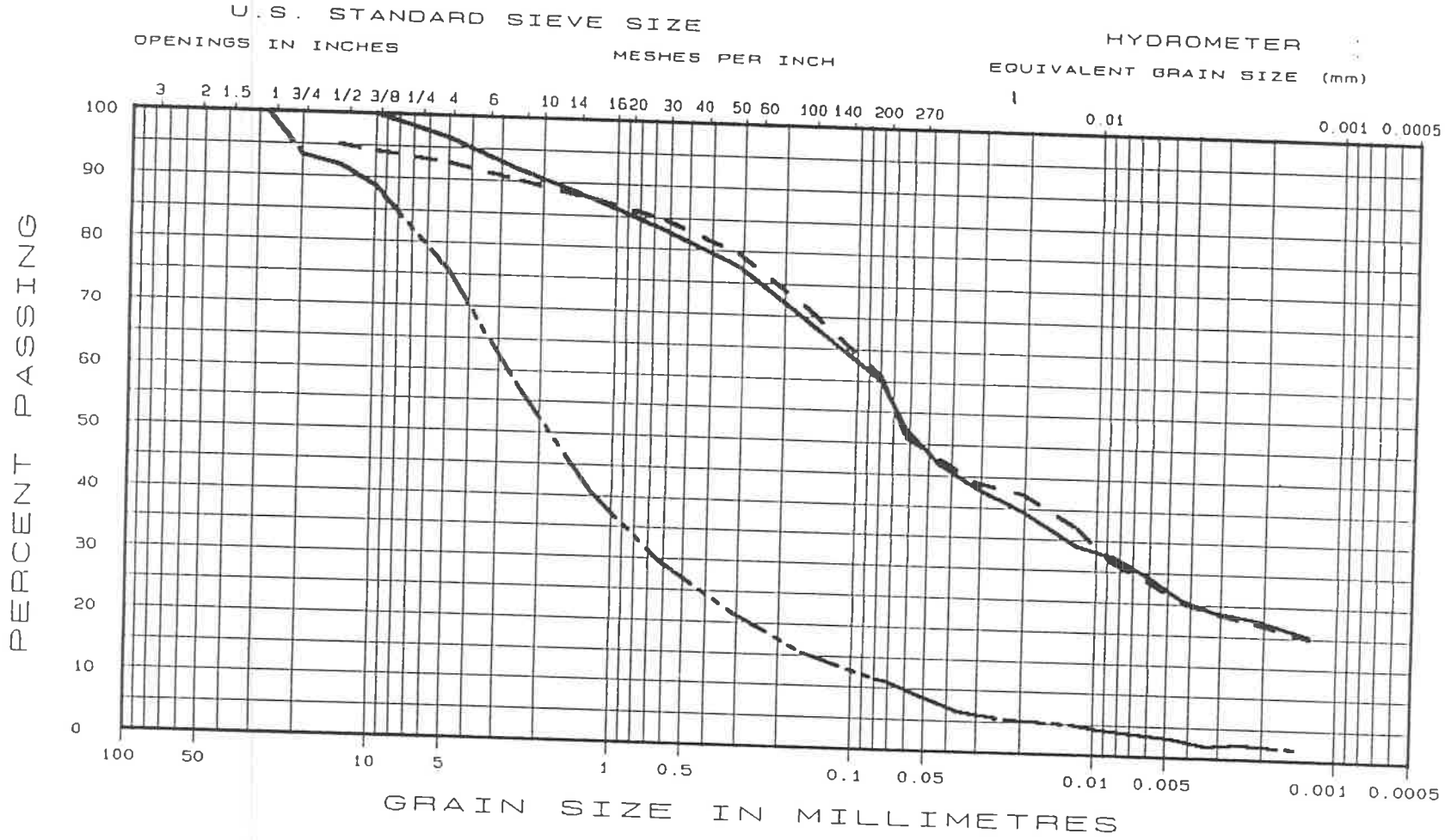
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 2	Sa 2B	1.9 m	Sandy Silty Clay : TILL (CL-ML)

FIGURE A4.b3

30000



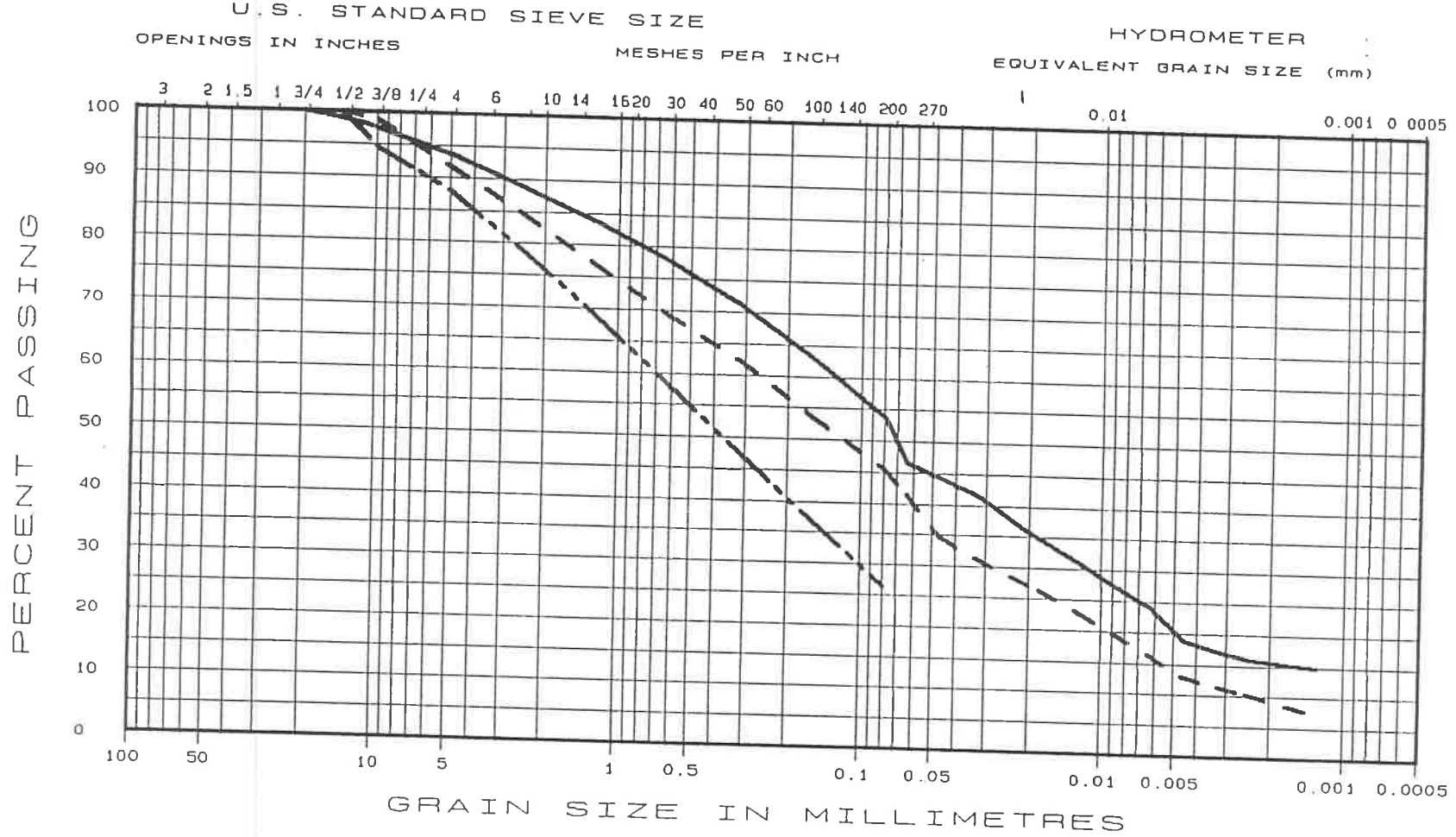
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
RD 2	Sa 4A	3.4 m	Sandy clay: TILL (CL)
RD 2	Sa 5	4.7 m	Sandy clay: TILL (CL)
RD 6	Sa 2	2.1 m	Sand with silt and gravel: TILL (SM)

FIGURE A4.b4

30000



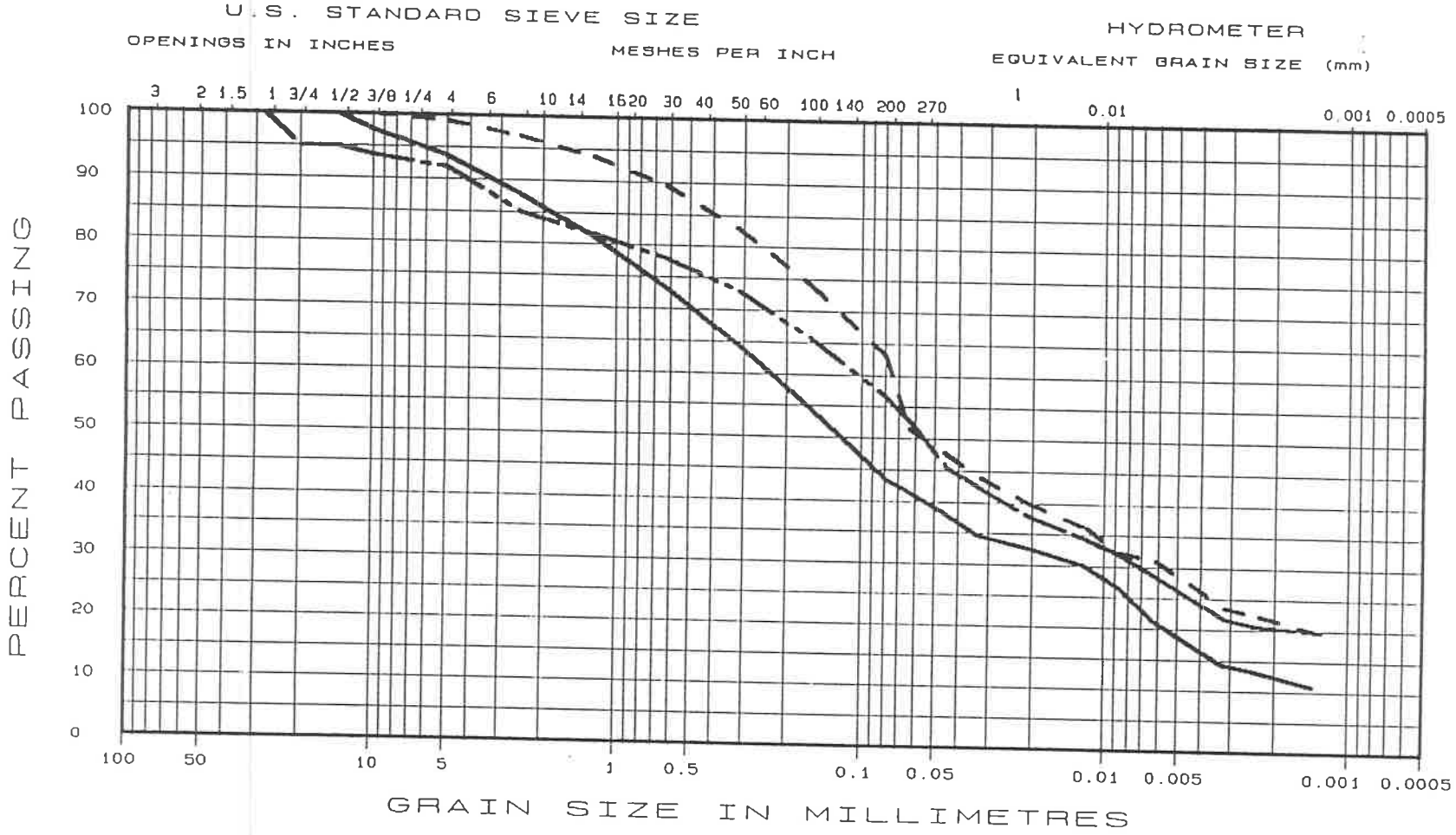
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 7	Sa 4	3.4 m	Sandy clay: TILL (CL)
– – –	RD 7	Sa 2	1.5 m	Sandy clay: TILL (CL)
—·—·—	RD 8	SA 1B	0.4 m	Silty SAND (SM)

FIGURE A4.b5

30000



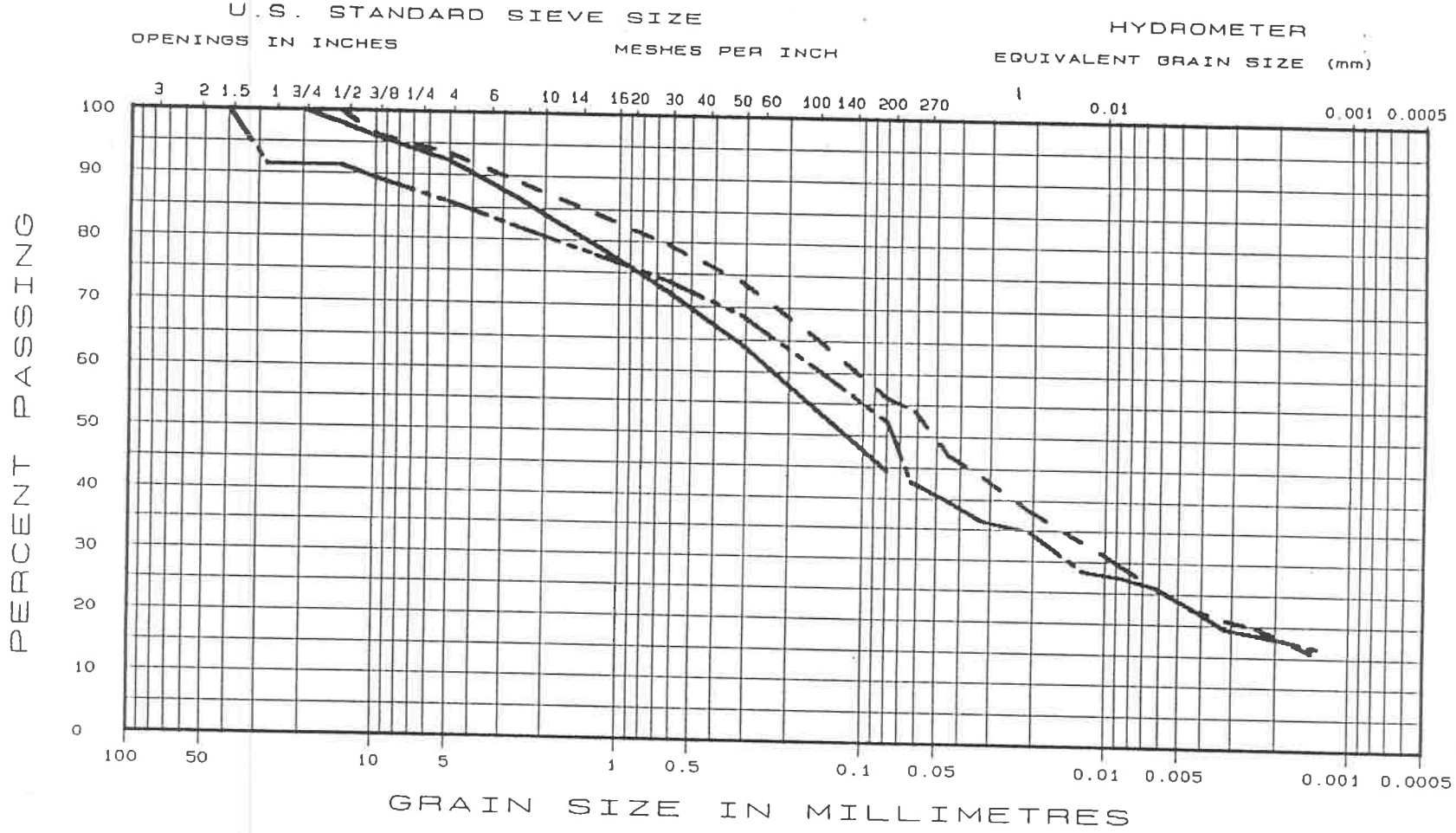
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 8	Sa 2	0.9 m	Silty clayey sand : TILL (SC-SM)
– – –	RD 8	Sa 4	2.1 m	Sandy clay : TILL (CL)
—·—·—	RD 8	Sa 6	3.4 m	Sandy clay : TILL (CL)

FIGURE A4.b6

30000



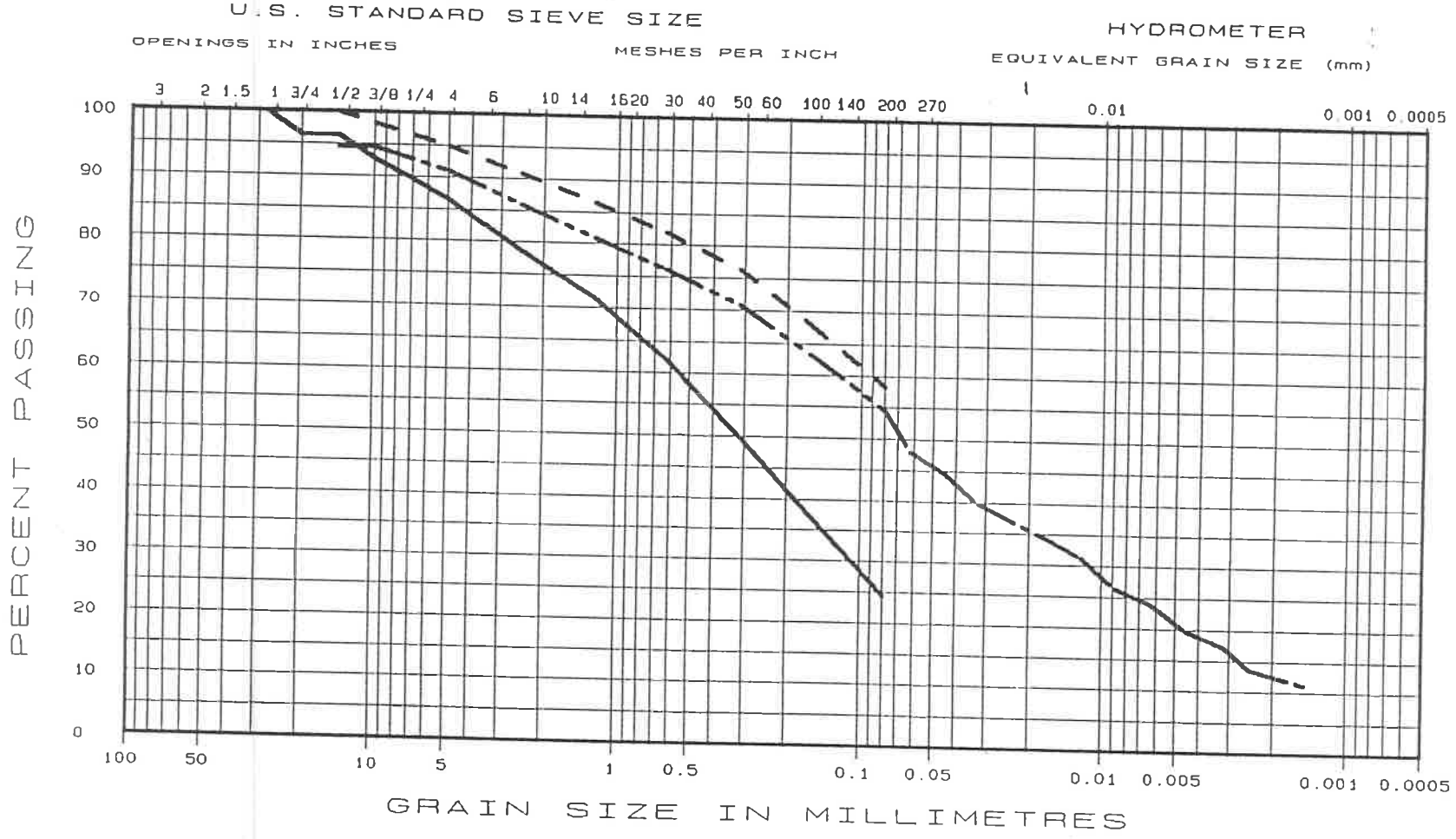
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 9	Sa 2A	0.8 m	Sandy silt : TILL (ML)
– – –	RD 9	Sa 3	1.6 m	Sandy clay : TILL (CL)
——––	RD 9	Sa 5	2.9 m	Sandy clay : TILL (CL)

FIGURE A4.b7

30000



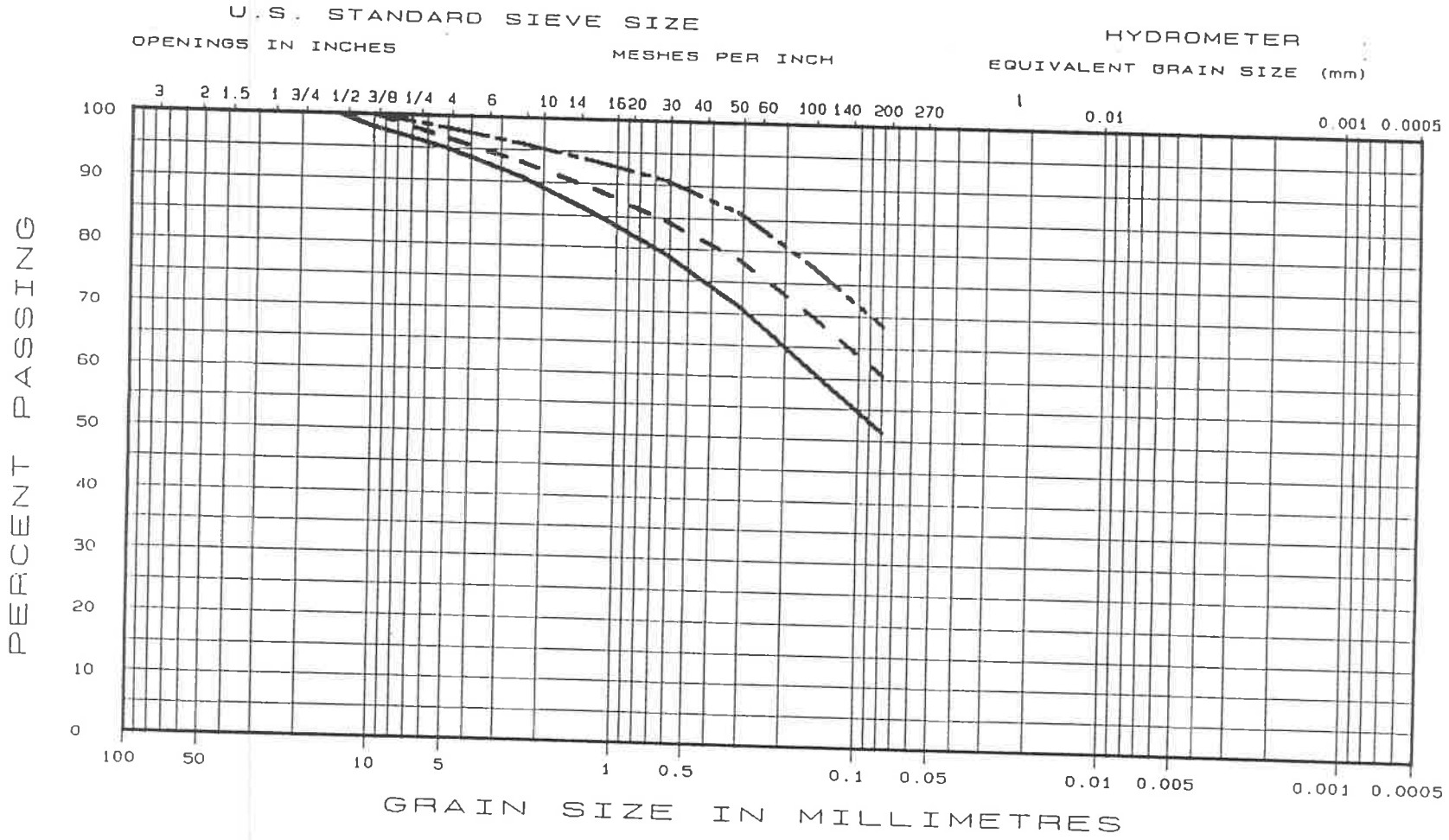
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 10	Sa 2A	0.74 m	Silty sand : TILL (SM)
– – –	RD 10	Sa 2B	1.1 m	Sandy clay : TILL (CL)
—·–·–	RD 10	Sa 4	2.1 m	Sandy clay : TILL (CL)

FIGURE A4.b8

30000



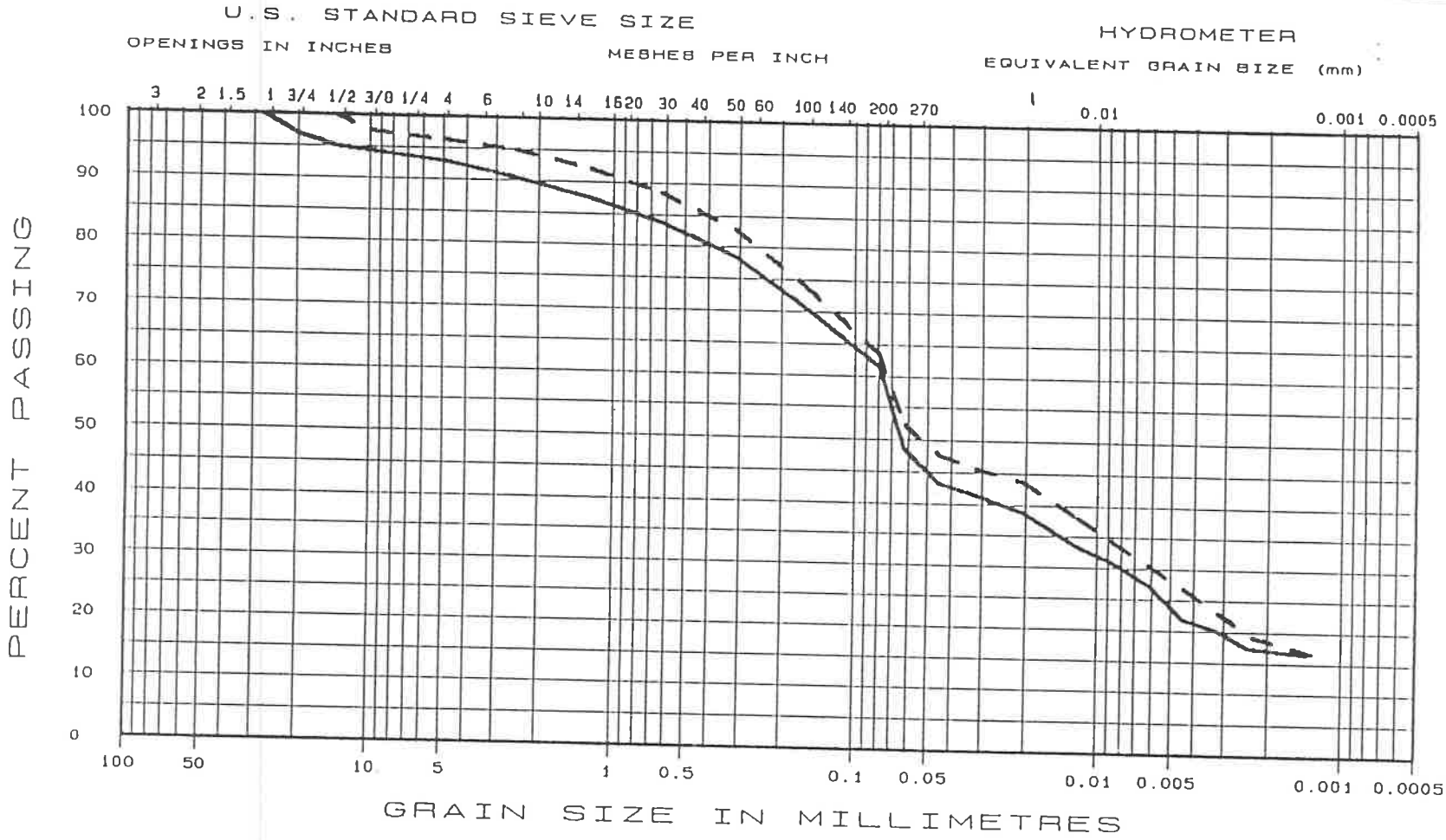
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
RD 13	SA 2A	0.7 m	Sandy clayey silt : TILL (CL)
RD 13	SA 2B	1.3 m	Sandy clay : TILL (CL)
RD 13	SA 5A	2.6 m	Sandy clay : TILL (CL)

FIGURE A4.b9

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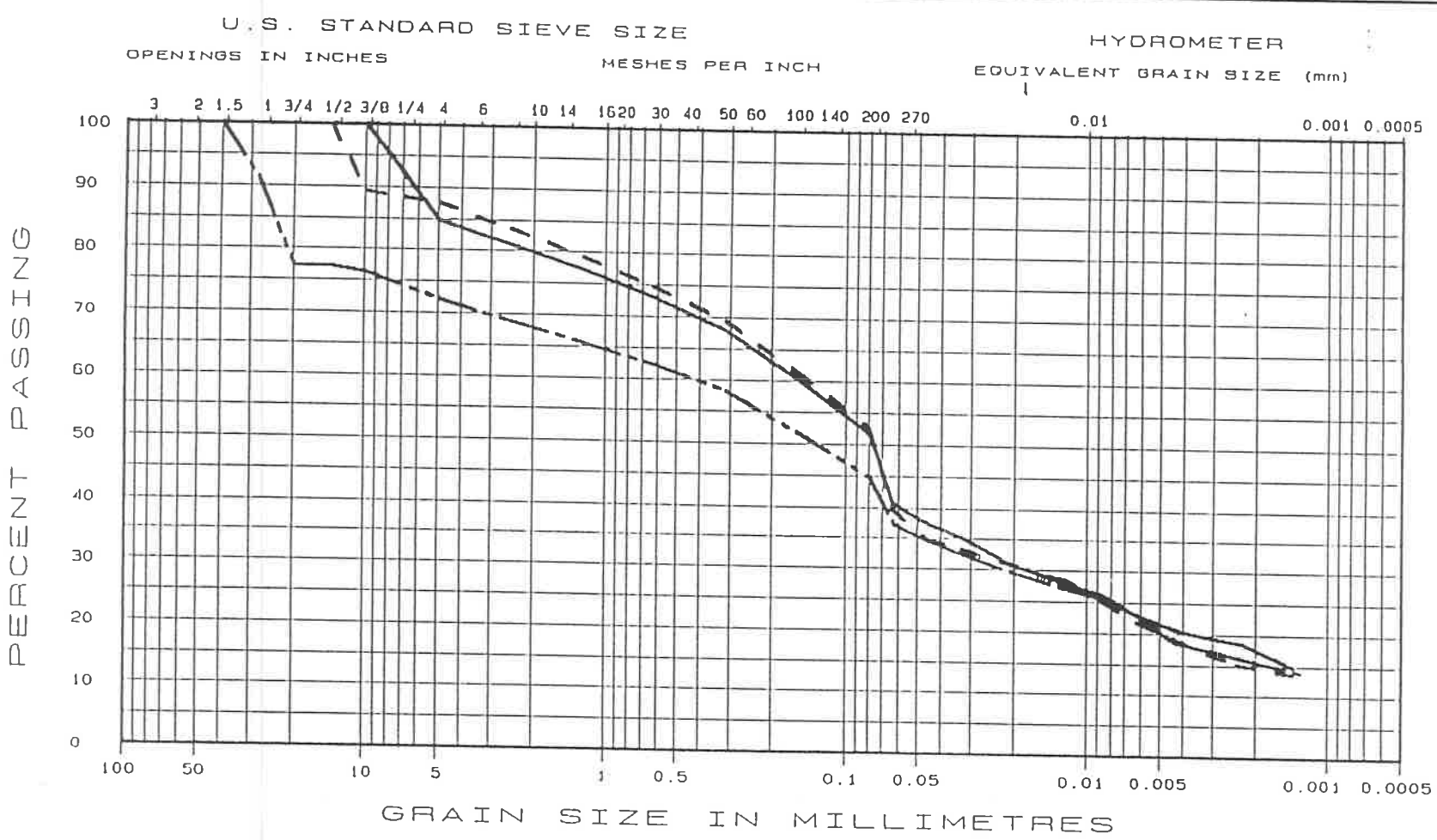
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 13	SA 3	1.5 m	Sandy clay: TILL (CL)
– – –	RD 13	SA 4	2.1 m	Sandy clay: TILL (CL)

FIGURE A4.b10

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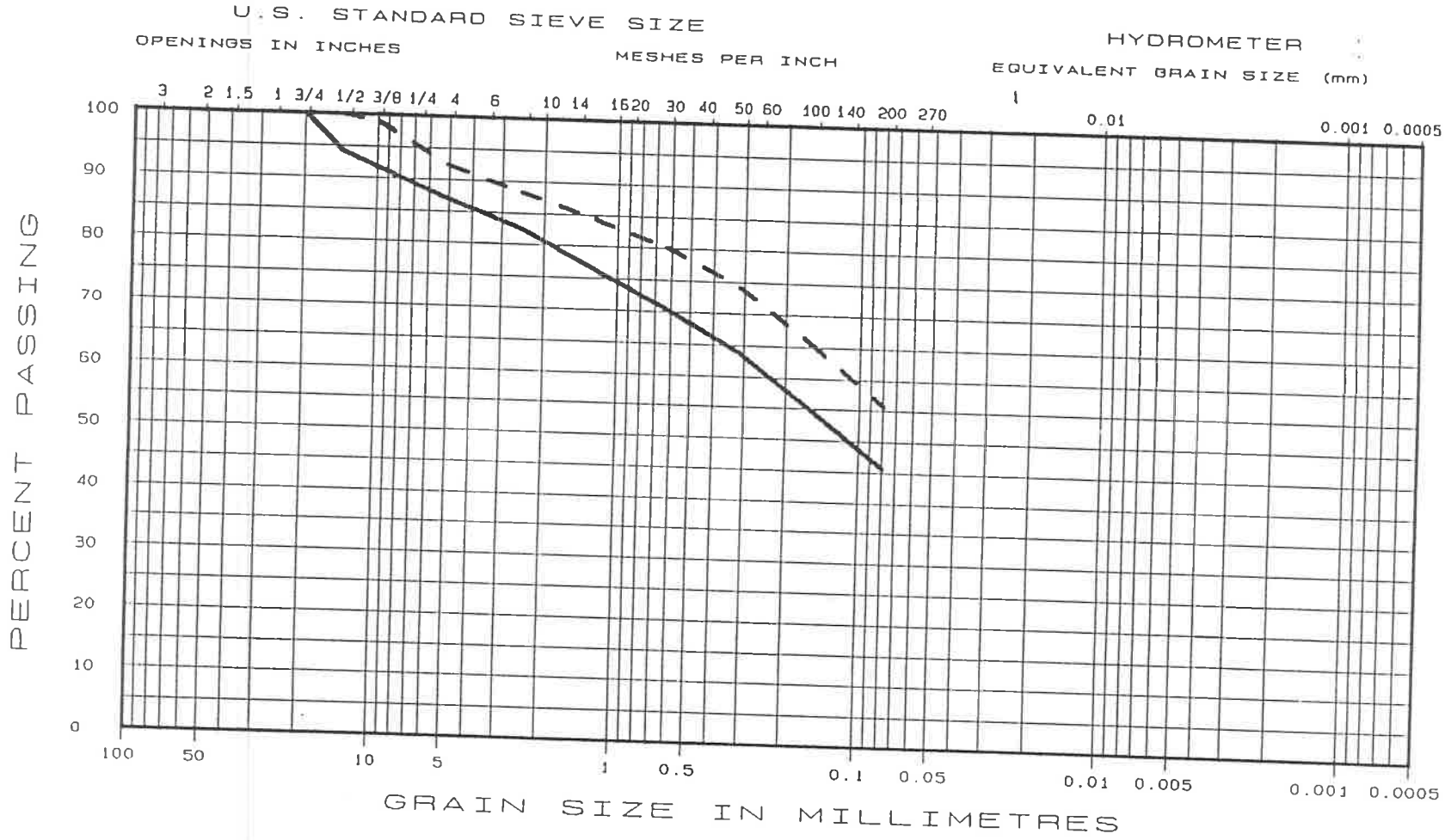
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 14	SA 5	3.6 m	Sandy clay with gravel : TILL (CL)
— — —	RD 14	SA 6	4.9 m	Sandy clay : TILL (CL)
———	RD 14	SA 7	6.5 m	Sandy clay with gravel : TILL (CL)

FIGURE A4.b1

30000



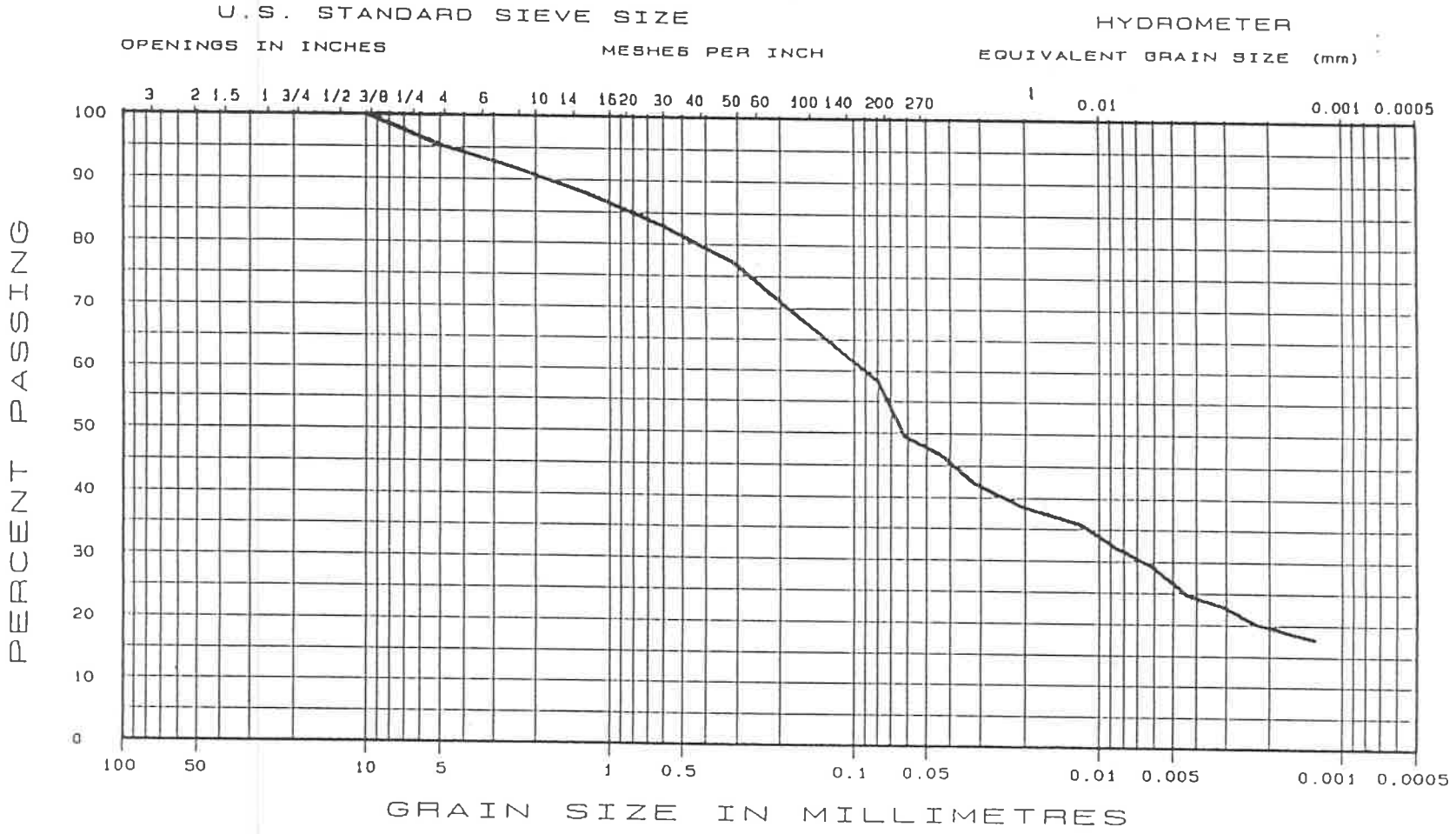
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 15	SA 1C	0.5 m	Silty SAND (SM)
– – –	RD 15	SA 2B	1.0 m	Sandy clay : TILL (CL)

FIGURE A4.b12

30000



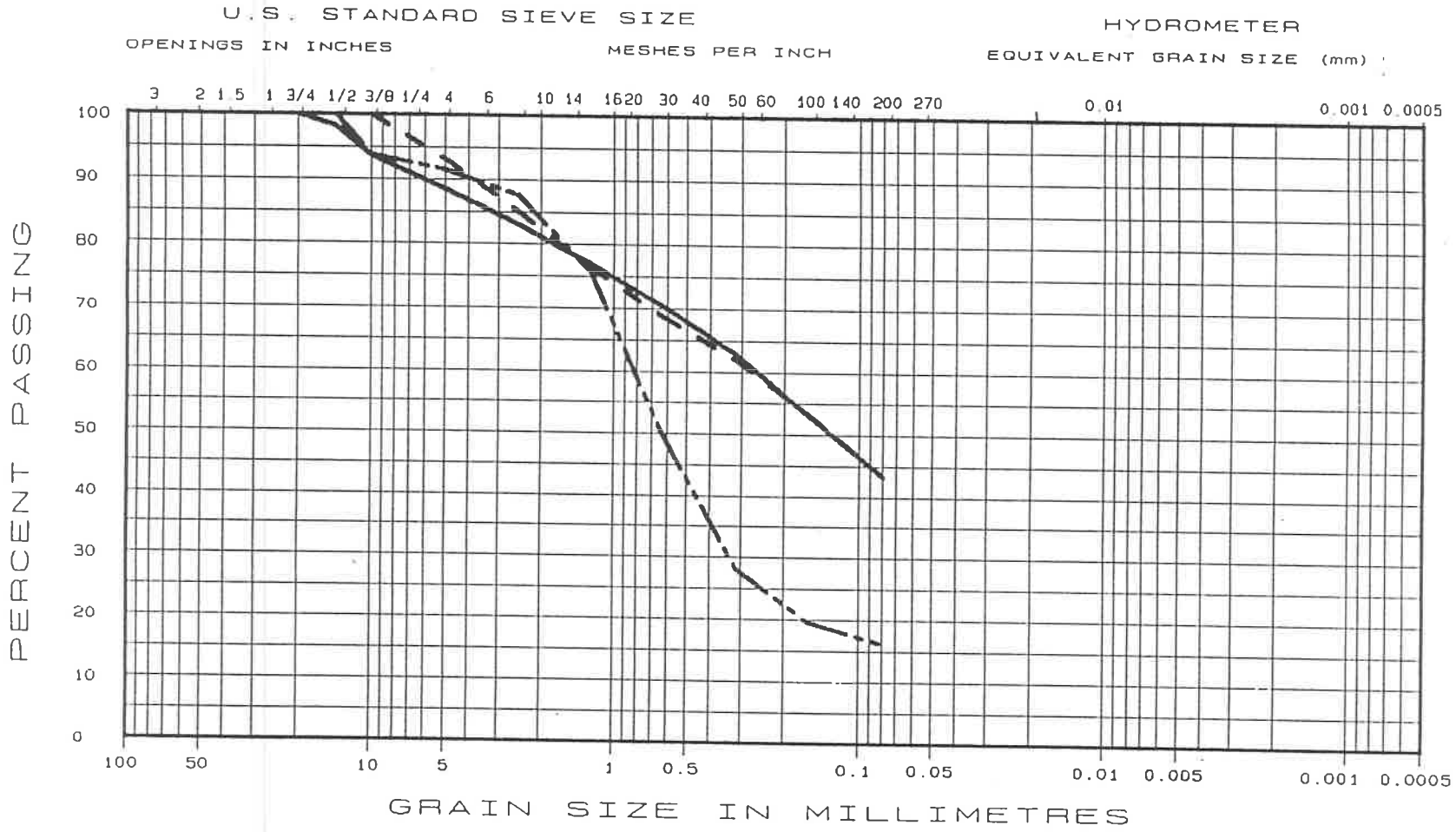
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 15	SA 3	1.5 m	Sandy clay : TILL (CL)

FIGURE A4.b13

30000



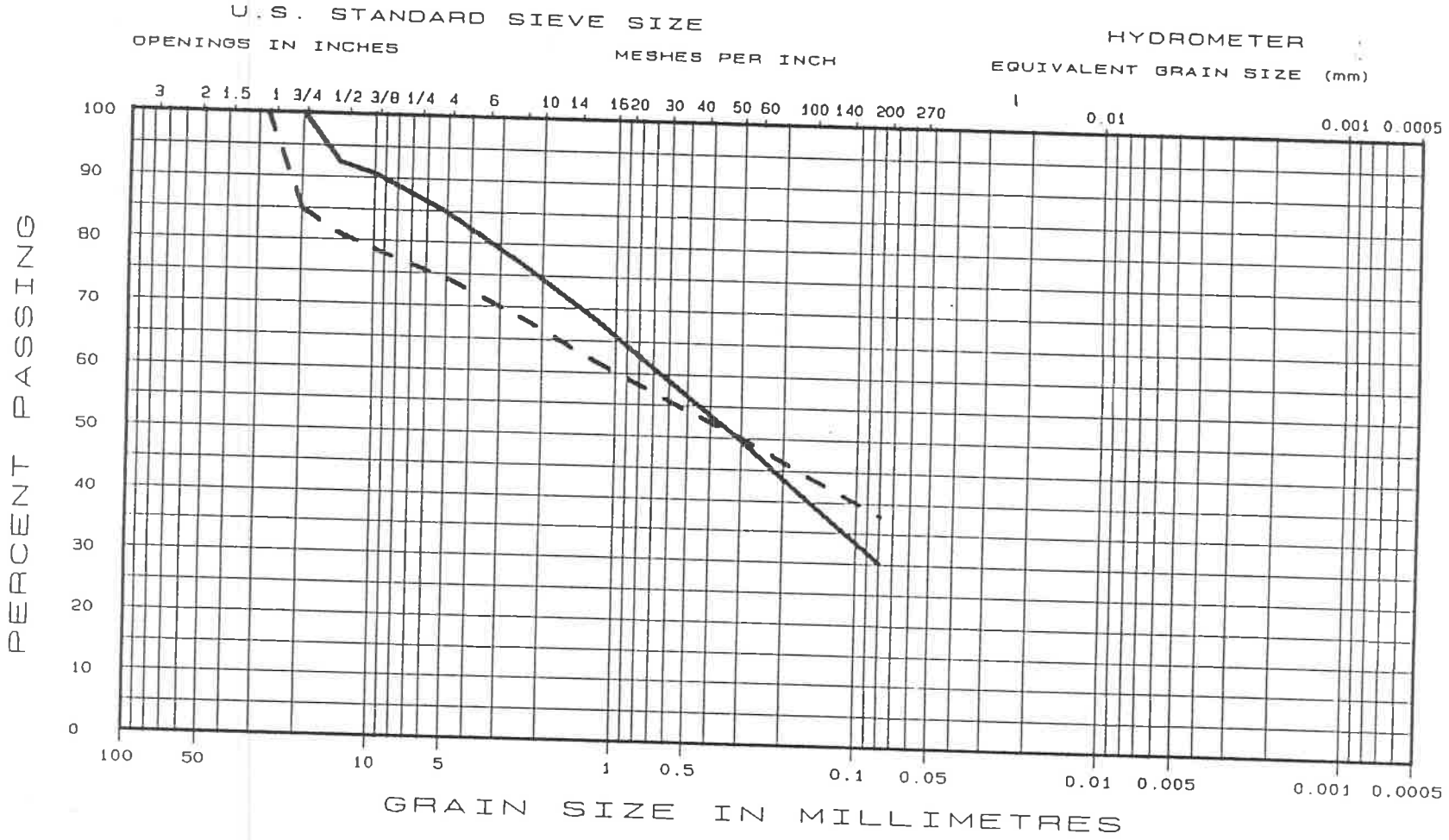
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 16	SA 2B	0.9 m	Silty sand : TILL (SM)
— — —	RD 18	SA 1C	0.5 m	Silty sand : TILL (SM)
———	RD 20	SA 1C	0.4 m	Silty sand : TILL (SM)

FIGURE A4.b14

30000



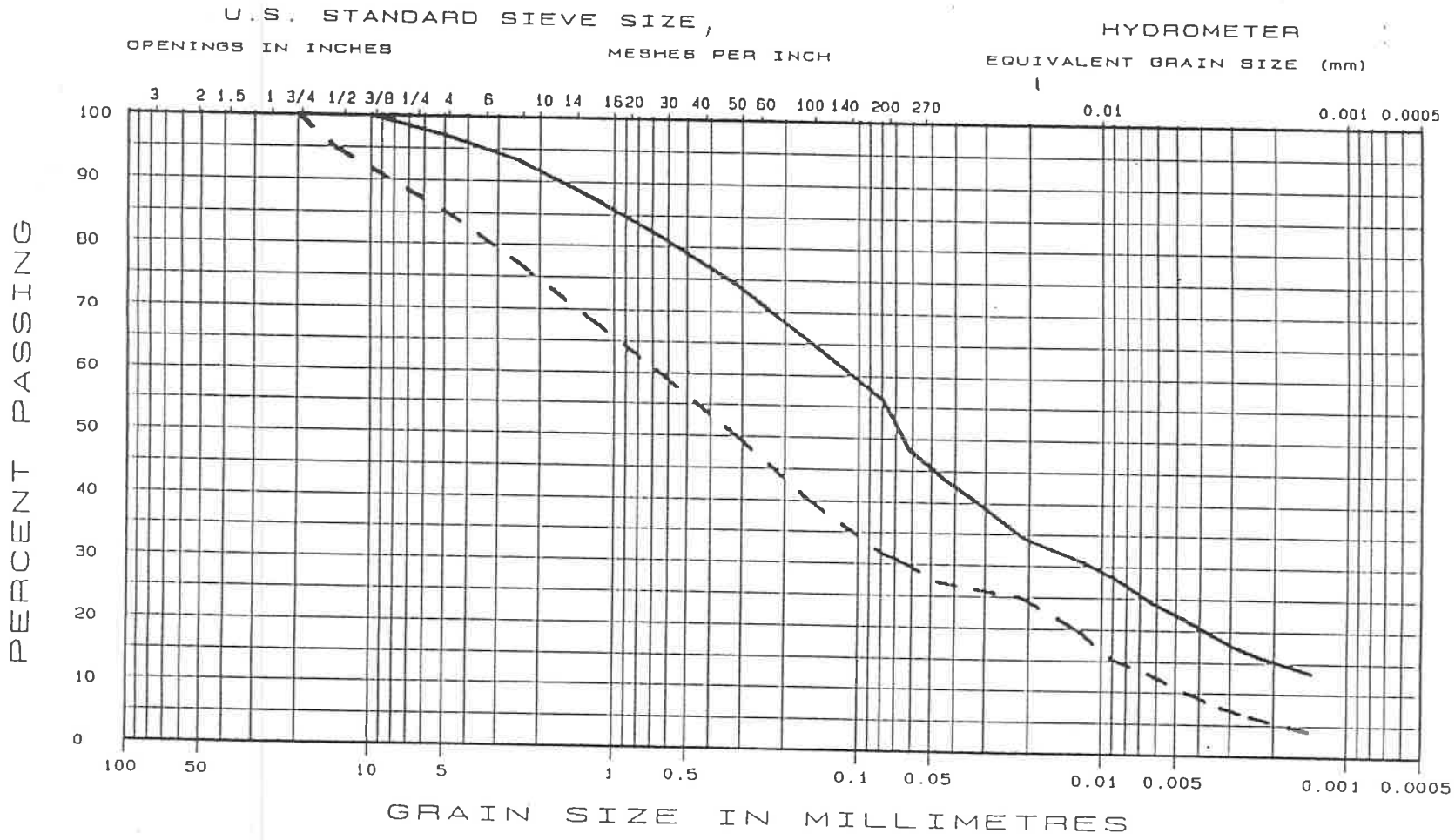
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 21	Sa 2A	0.7 m	Silty sand with gravel : TILL (SM)
– – –	RD 22	SA 2	0.9 m	Silty sand with gravel : TILL (SM)

FIGURE A4.b15

30000



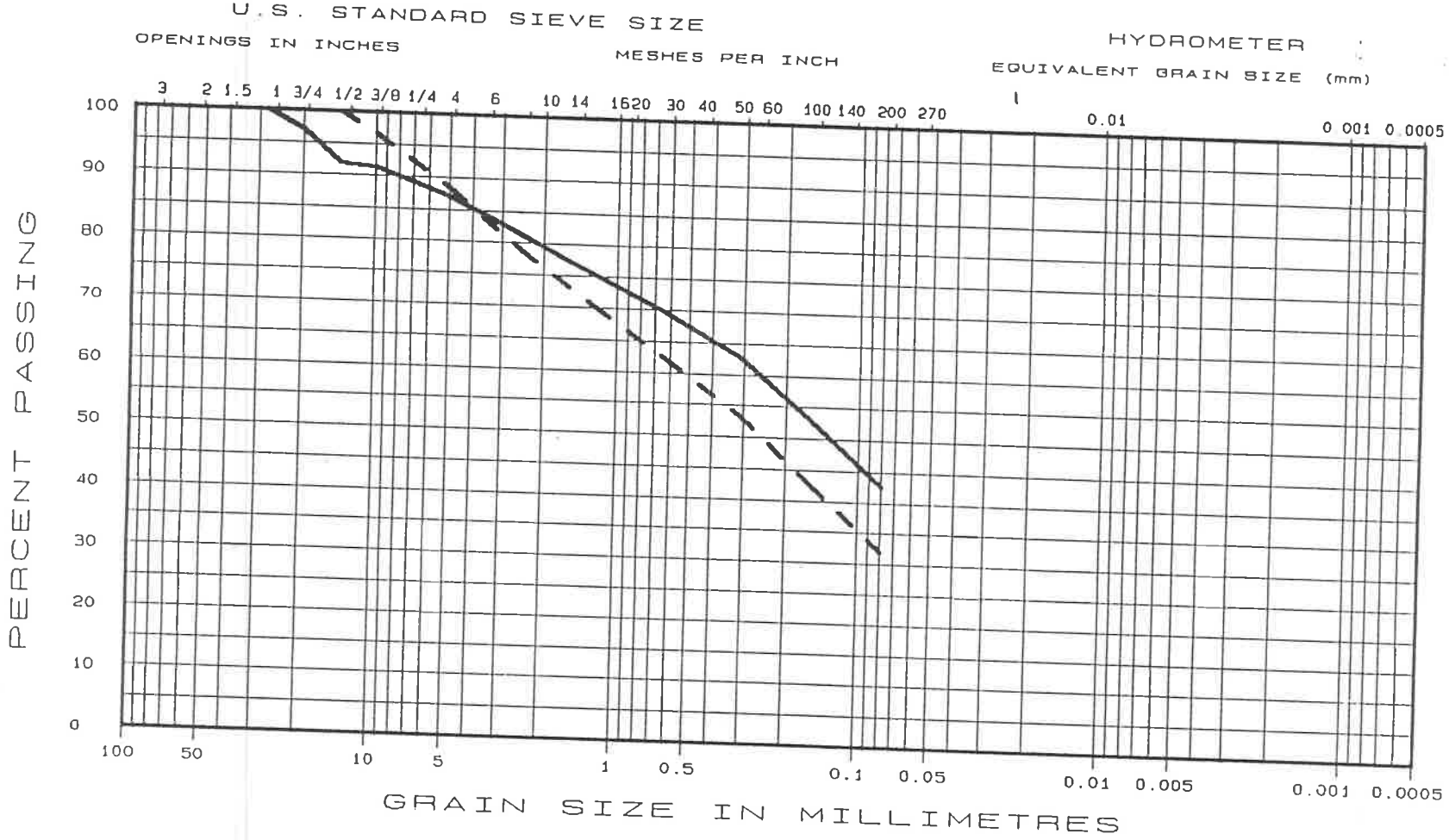
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 23	SA 3A	1.4 m	Sandy clay : TILL (CL)
– – –	RD 24	SA 2B	1.0 m	Silty clayey sand with gravel: TILL (SC-SM)

FIGURE A4.b16

30000



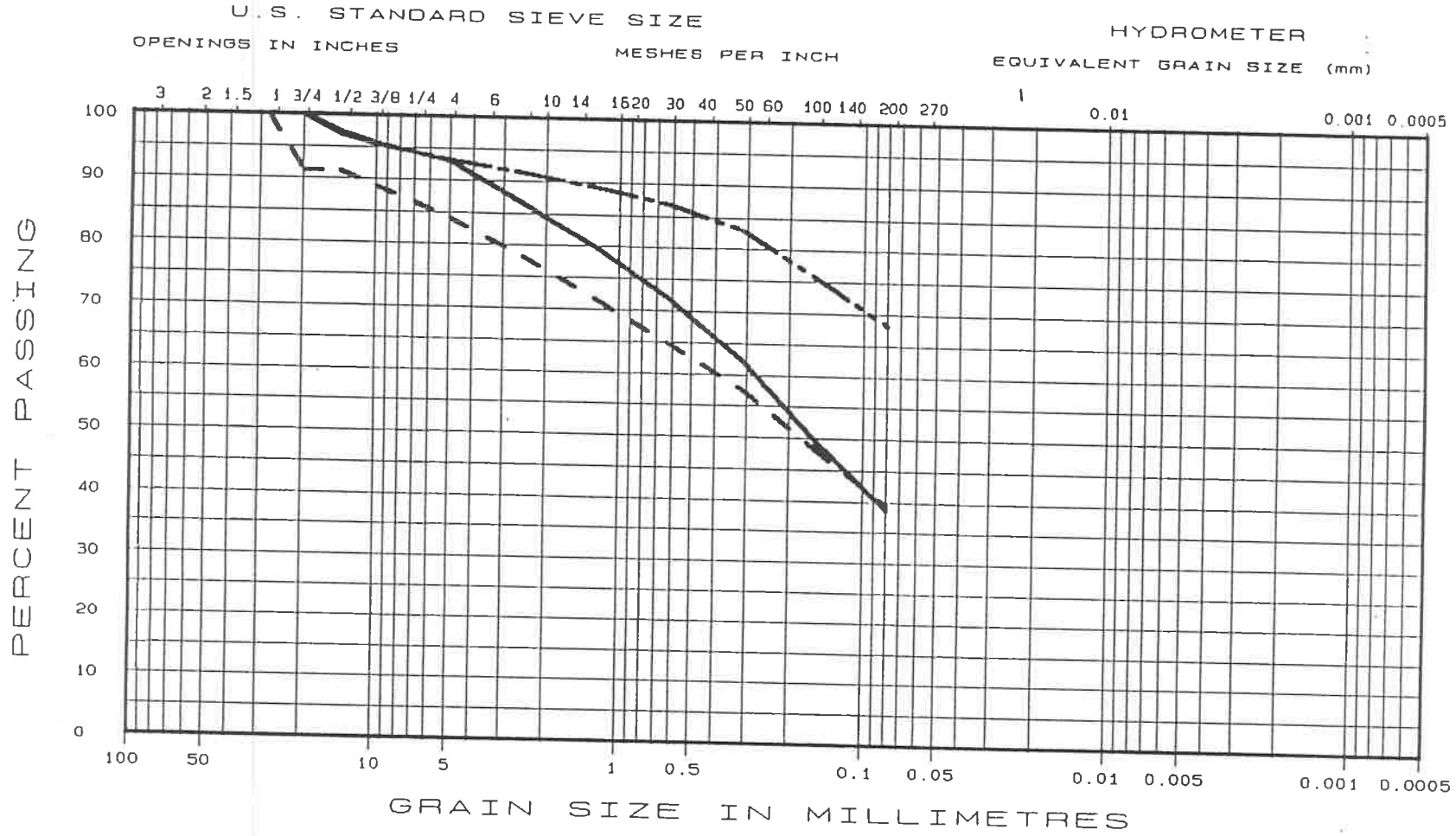
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 25	Sa 3A	1.4 m	Silty sand : TILL (SM)
– – –	RD 27	Sa 3	1.1 m	Sitly sand : TILL (SM)

FIGURE A4.b17

30000



GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 28	SA 3	1.5 m	Silty sand : TILL (SM)
– – –	RD 28	SA 4A	2.0 m	Sandy clay with gravel : TILL (CL)
——–	RD 29	SA 2	0.9 m	Sandy clay : TILL (CL)

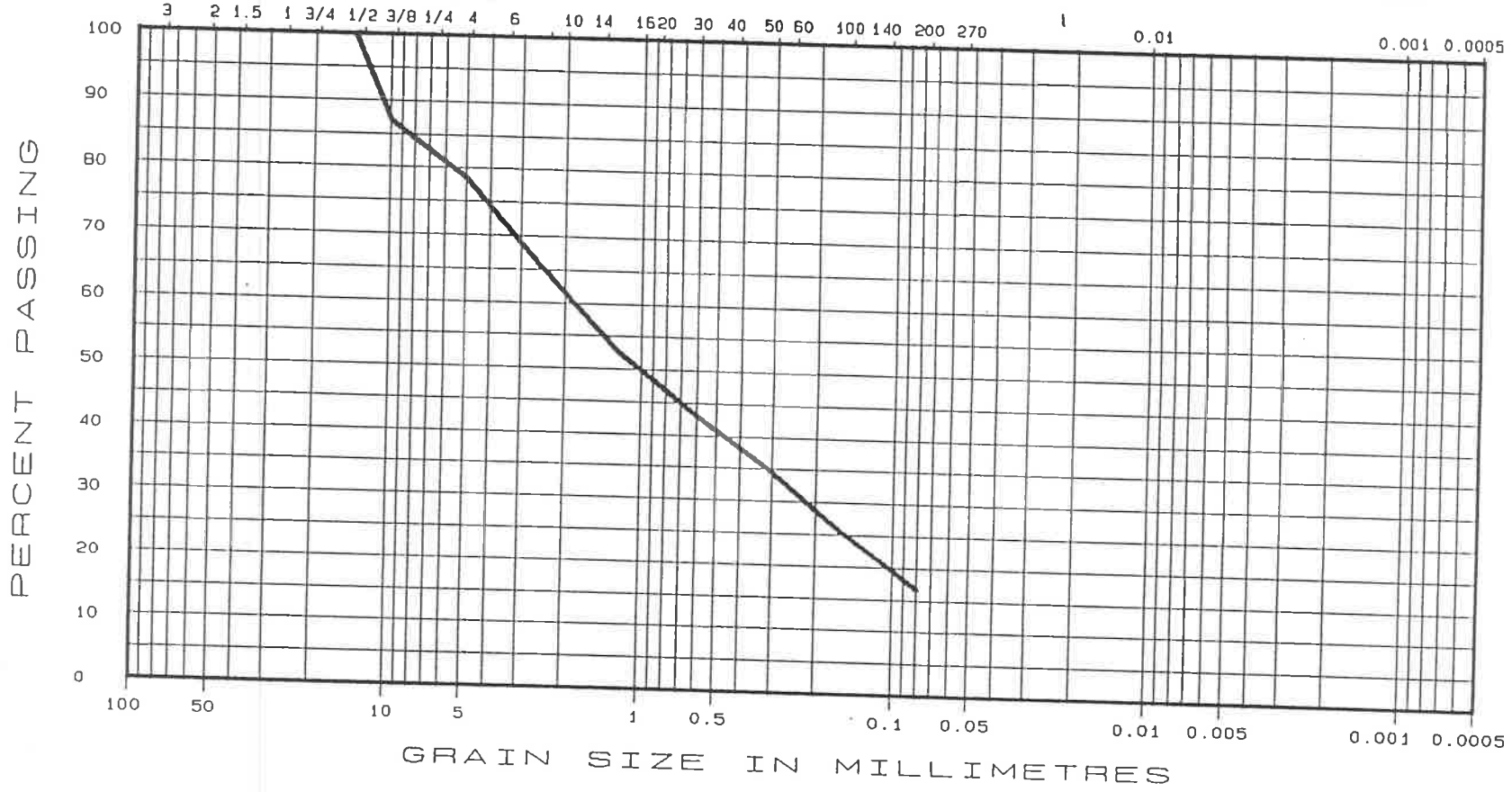
FIGURE A4.b18

30000

U.S. STANDARD SIEVE SIZE

OPENINGS IN INCHES 3 2 1.5 1 3/4 1/2 3/8 1/4 4 6 10 14 16 20 30 40 50 60 100 140 200 270 MESHES PER INCH

HYDROMETER EQUIVALENT GRAIN SIZE (mm) 1 0.01 0.001 0.0005



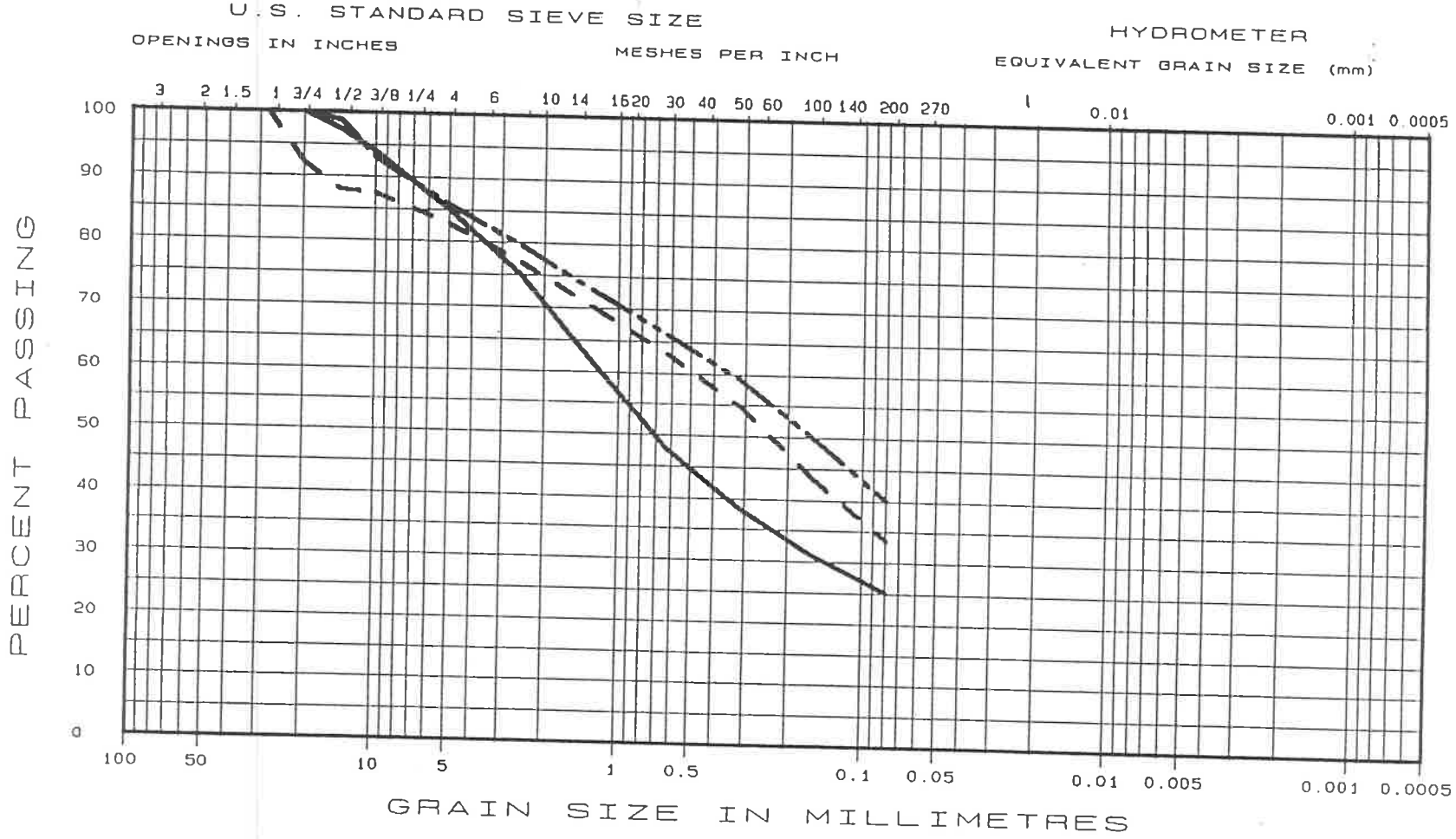
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 30	SA 1B	0.5 m	Silty sand with gravel : TILL (SM)

FIGURE A4.b19

30000



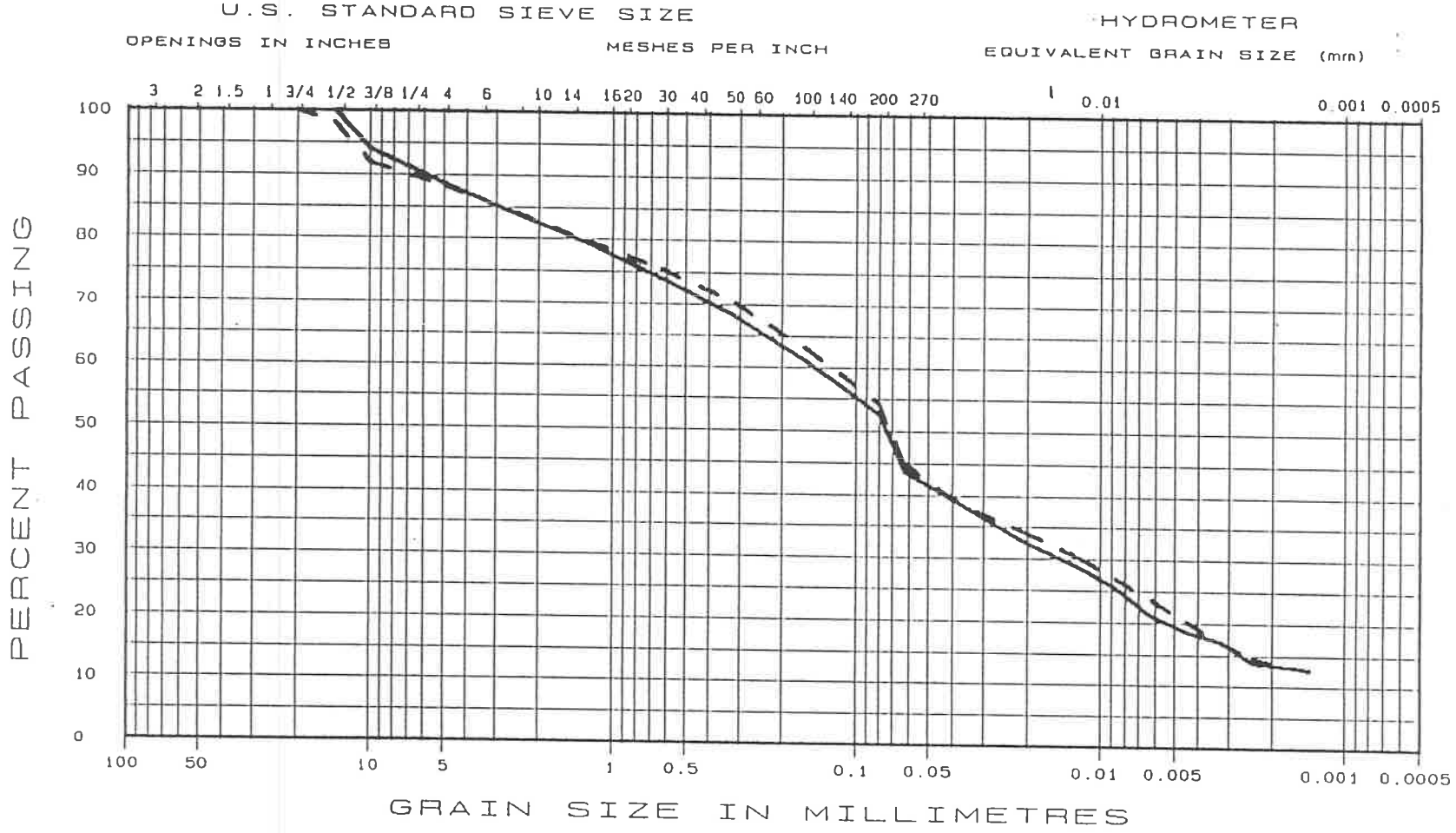
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 31	SA 2	0.8 m	Silty sand with gravel : TILL (SM)
– – –	RD 31	Sa 5	3.1 m	Silty sand with gravel : TILL (SM)
——– –	RD 31	Sa 6	4.7 m	Silty sand with gravel : TILL (SM)

FIGURE A4.b20

30000



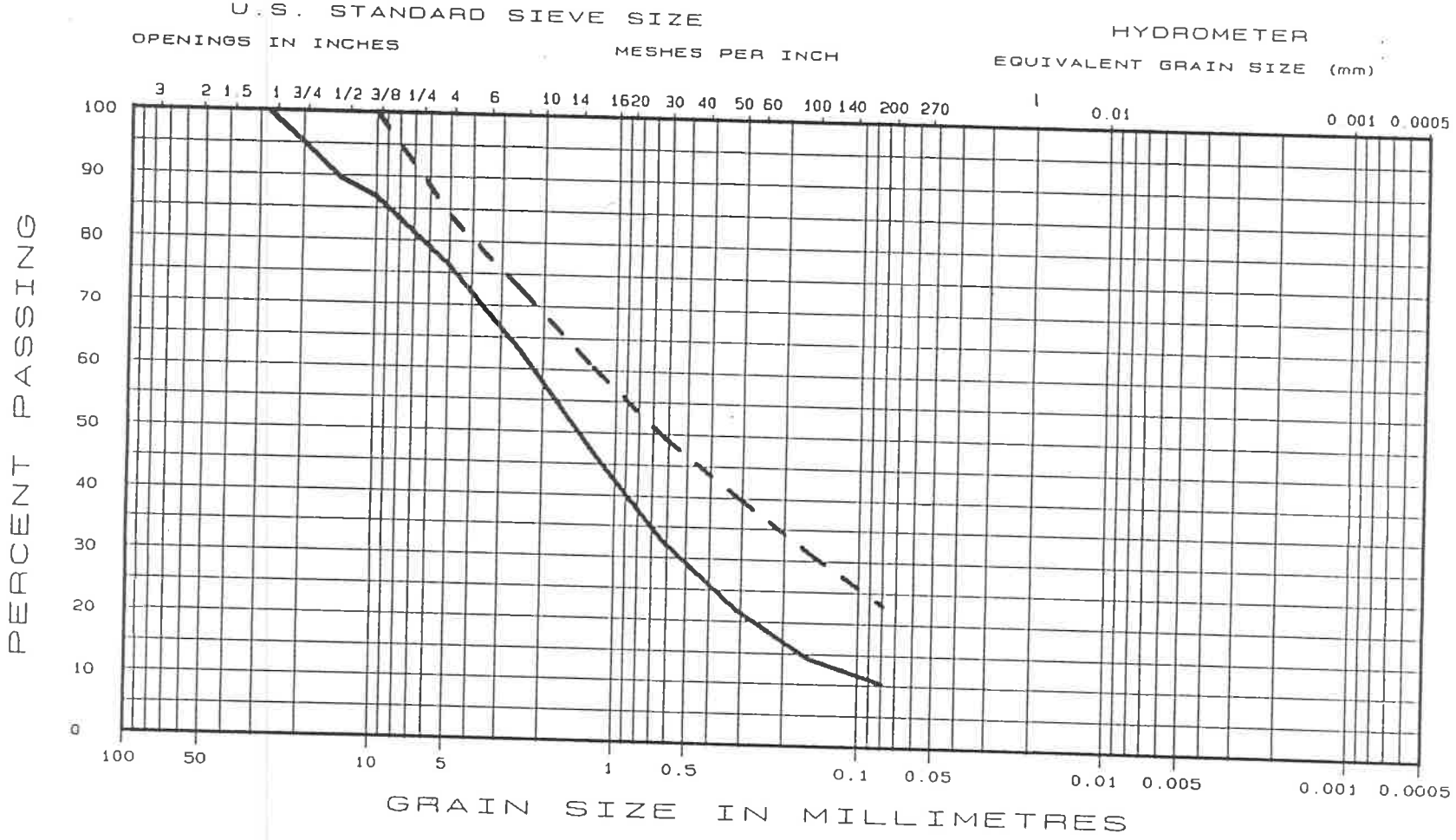
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	RD 32	SA 2	1.5 m	Sandy clay: TILL (CL)
— — —	RD 32	SA 4	4.6 m	Sandy clay: TILL (CL)

FIGURE A4.b21

30000



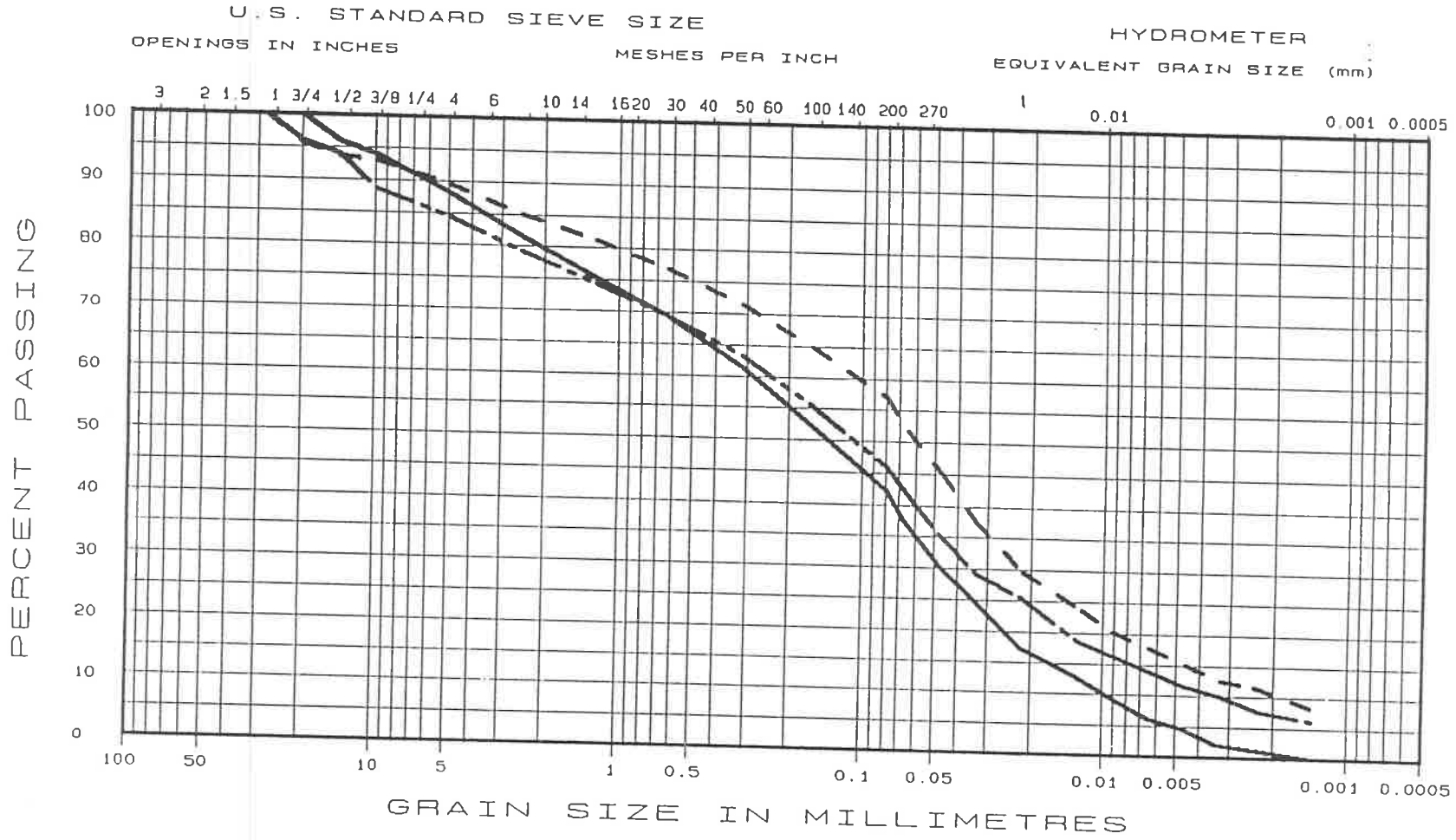
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
RD 33	SA 4A	1.7 m	Sand with silt and gravel : TILL
RD 34	SA 1C	0.4 m	Silty sand with gravel : TILL (SM)

FIGURE A4.b22

30000



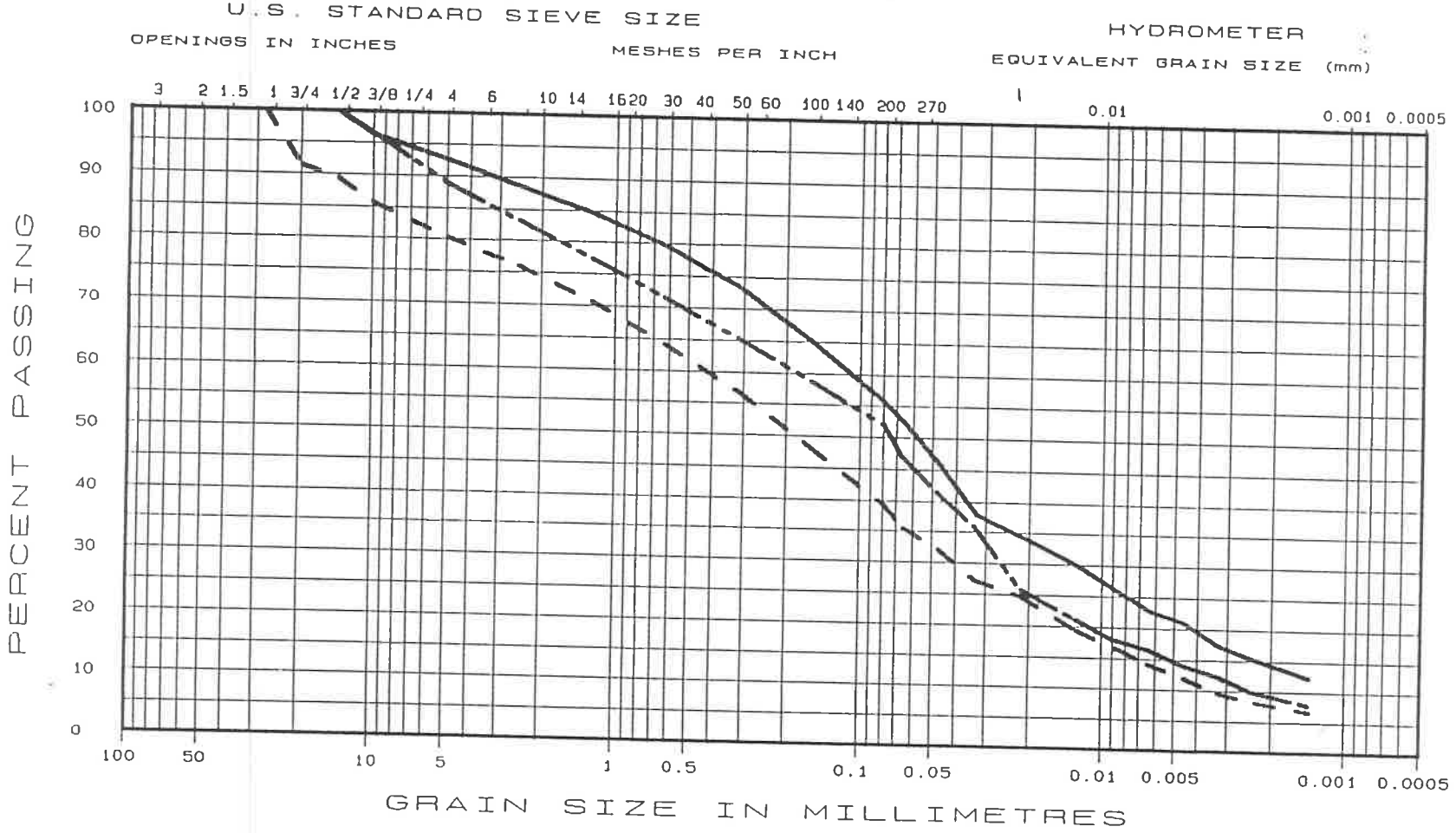
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	BH B1	SA 2	1.5 m	Silty sand: TILL (SM)
– – –	BH B1	SA 3	3.0 m	Sandy clay: TILL (CL)
——– –	BH B1	SA 6	7.0 m	Clayey sand with gravel: TILL (SC)

FIGURE A4.b23

30000



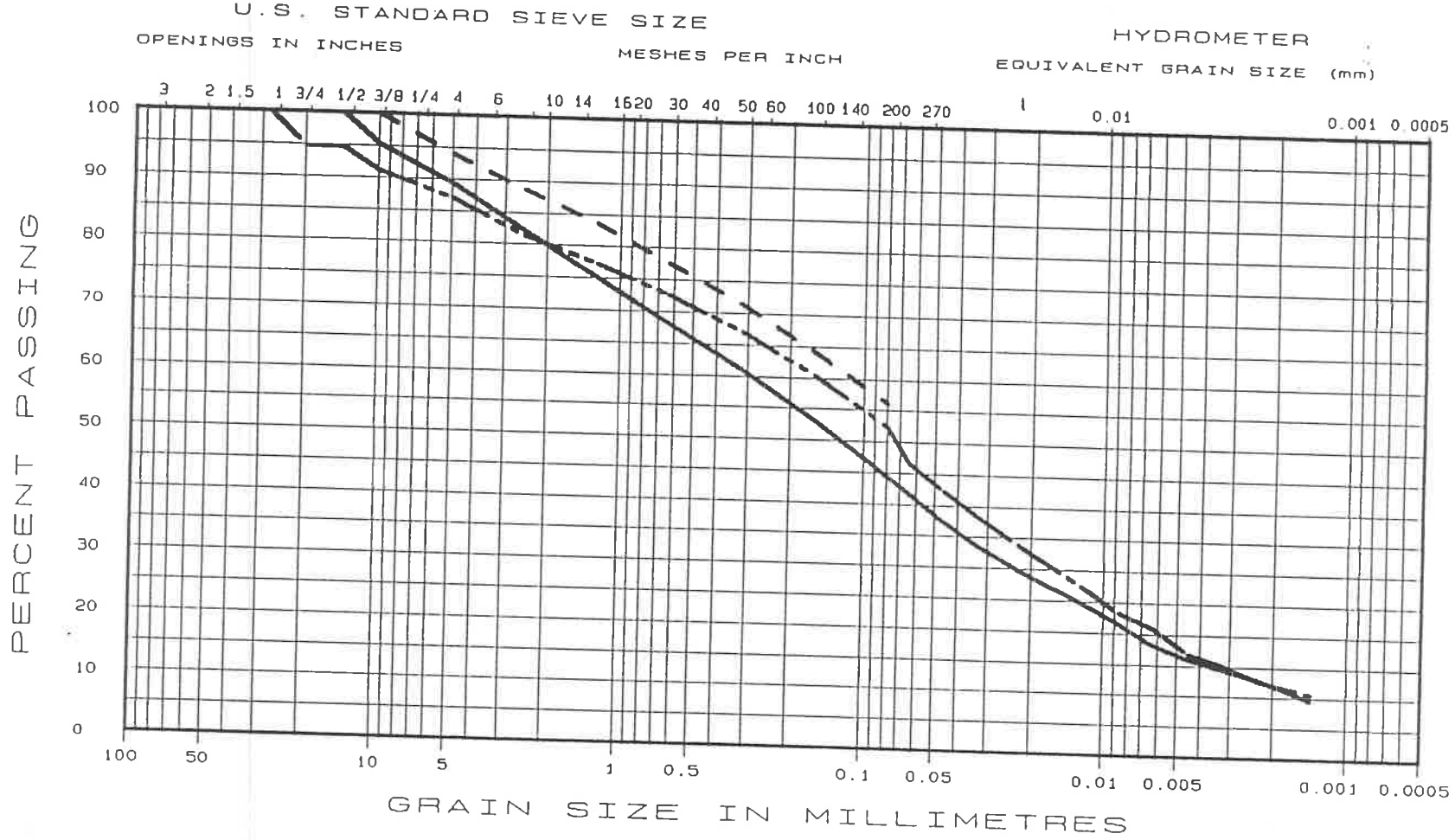
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
BH B1	SA 11	15.5 m	Sandy clay: TILL (CL)
BH B2	SA 3	2.1 m	Silty, clayey sand with gravel: TILL (SC-SM)
BH B2	SA 4	4.0 m	Clayey sand with gravel: TILL (SC)

FIGURE A4.b24

30000



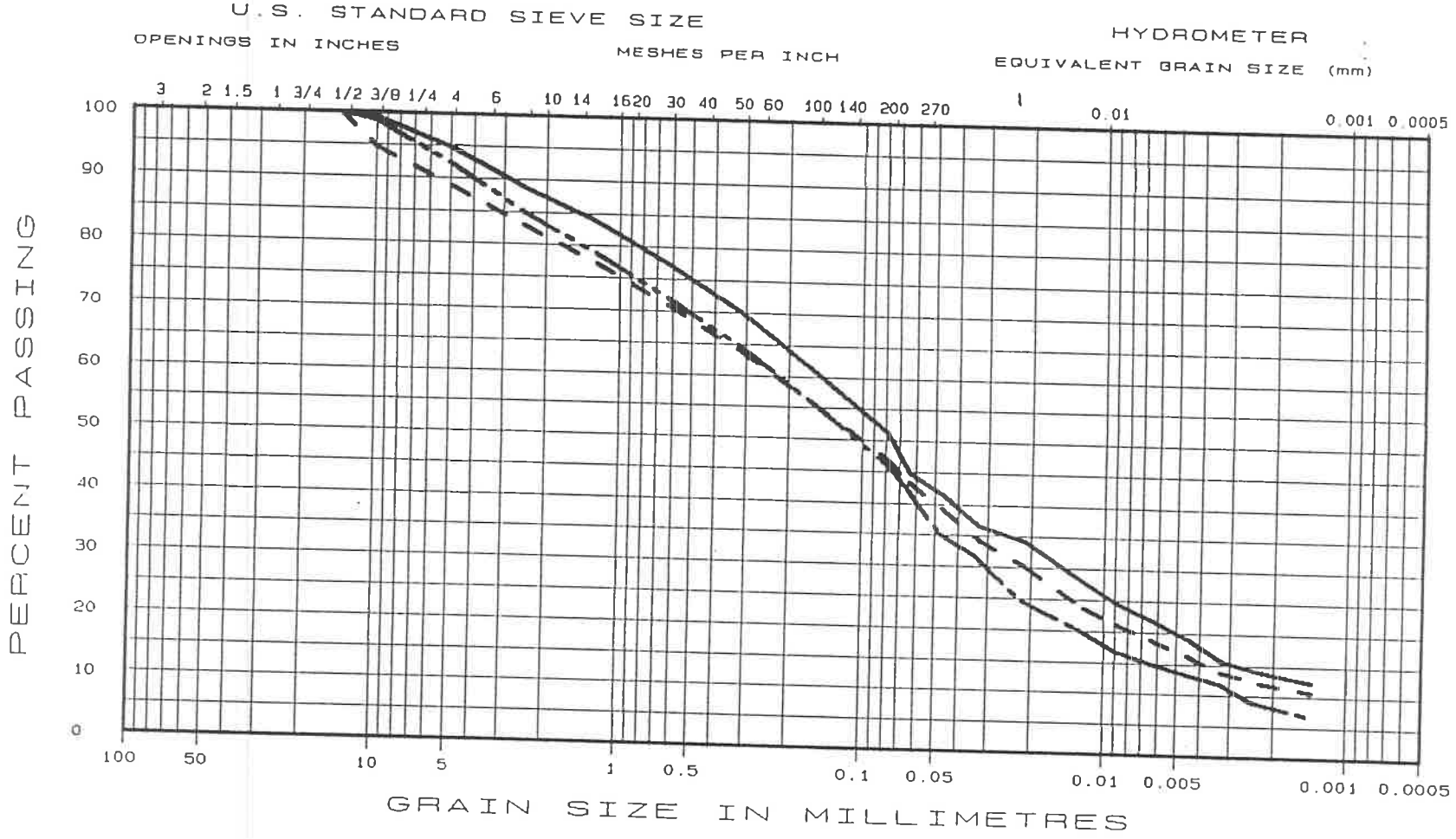
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
BH B2	SA 7	8.8 m	Clayey sand: TILL (SC)
BH B2	SA 11	15.8 m	Sandy clay: TILL (CL)
BH B2	SA 12	19.2 m	Sandy clay with gravel: TILL (CL)

FIGURE A4.b25

30000



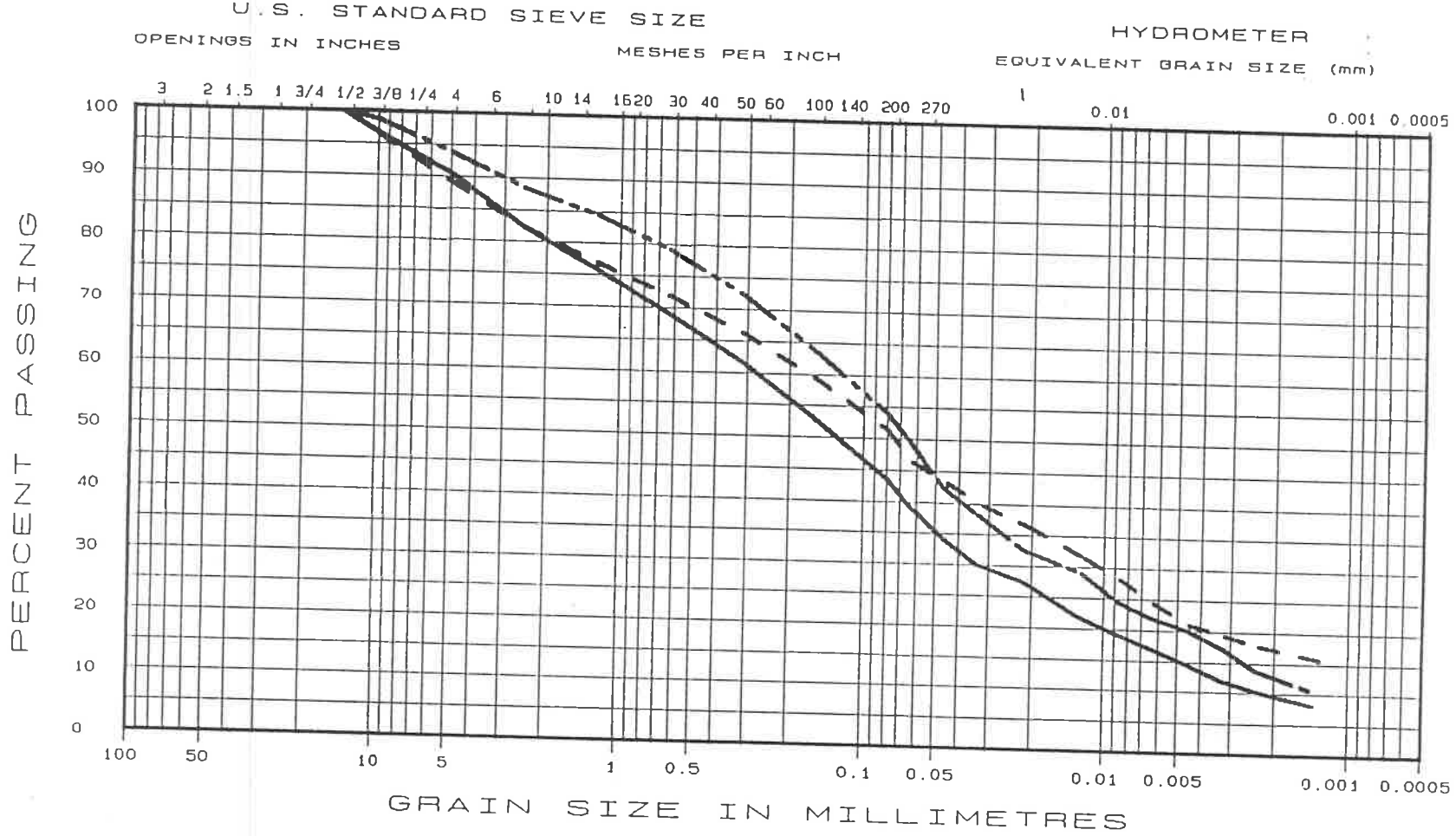
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
BH B3	SA 2	1.8 m	Sandy clay: TILL (CL)
BH B3	SA 3	3.4 m	Clayey sand: TILL (SC)
BH B3	SA 6	7.6 m	Clayey sand: TILL (SC)

FIGURE A4.b26

30000



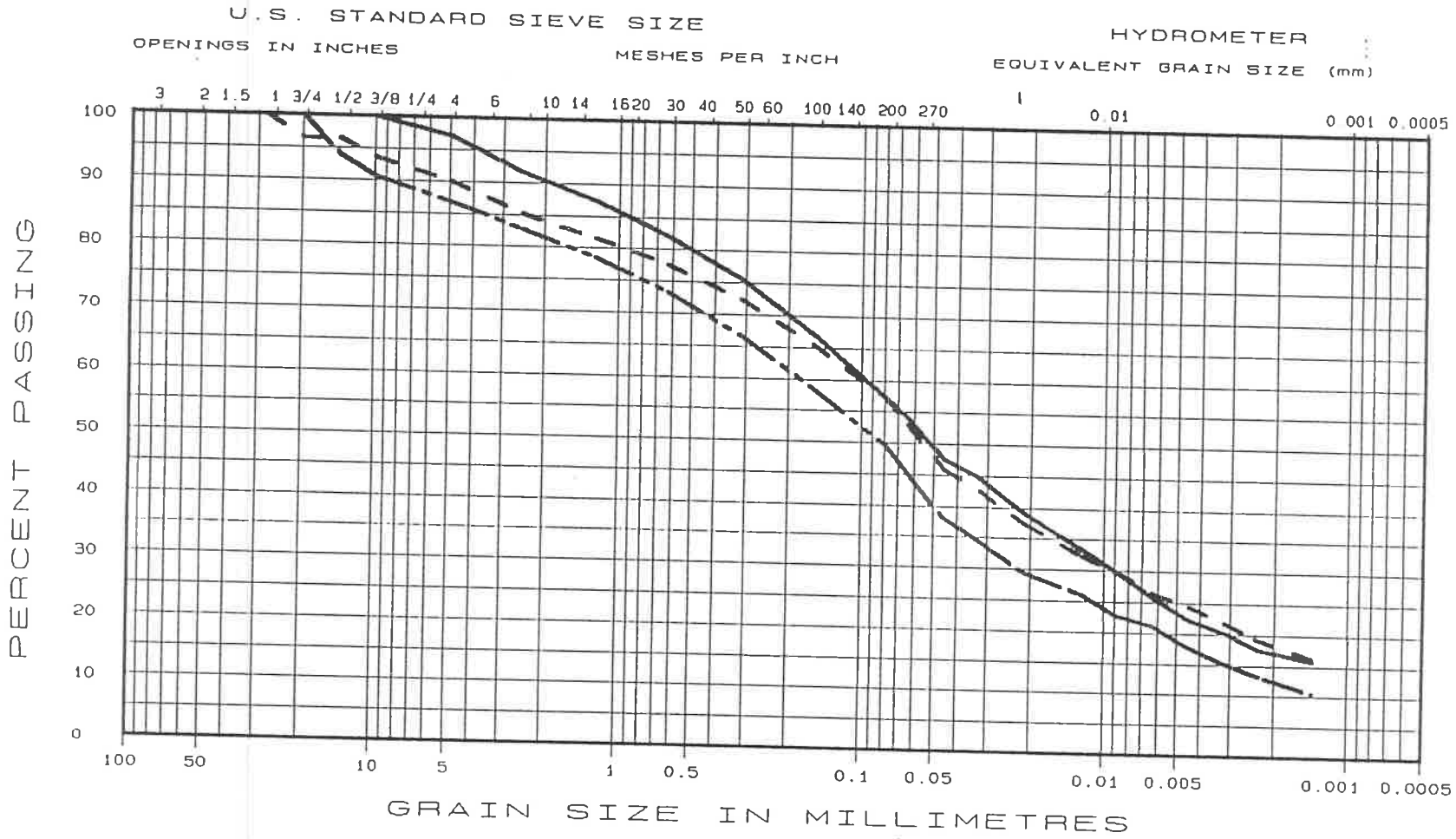
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	BH B3	SA 8	11.3 m	Clayey sand: TILL (SC)
– – –	BH B3	SA 10	14.9 m	Sandy clay: TILL (CL)
—– – –	BH B4	SA 2	1.5 m	Sandy clay: TILL (CL)

FIGURE A4.b27

30000



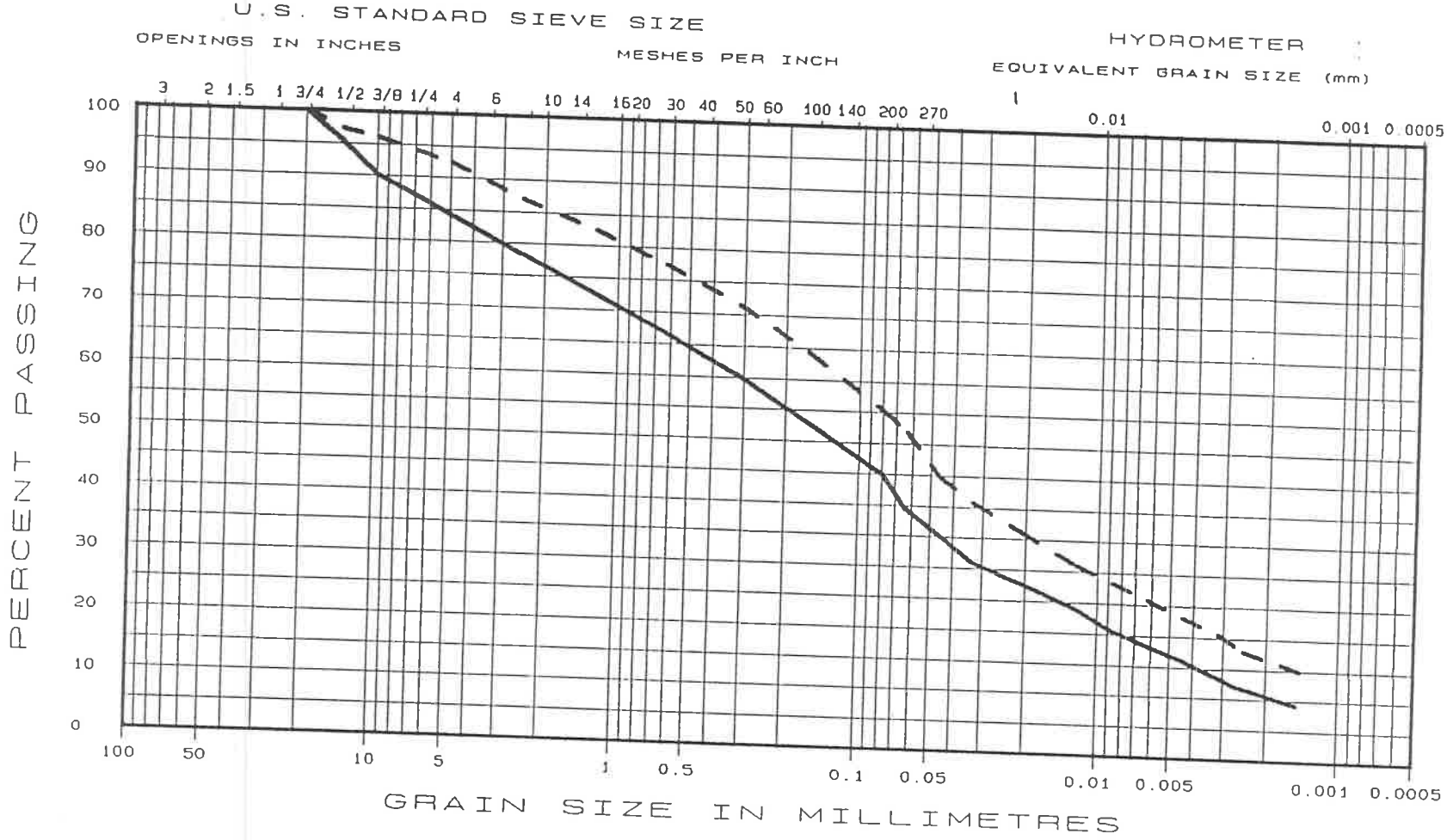
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	BH B4	SA 3	3.7 m	Sandy clay: TILL (CL)
– – –	BH B4	SA 8	16.8 m	Sandy clay: TILL (CL)
——–—–	BH B5	SA 2	1.5 m	Sandy clay with gravel: TILL (CL)

FIGURE A4.b28

30000



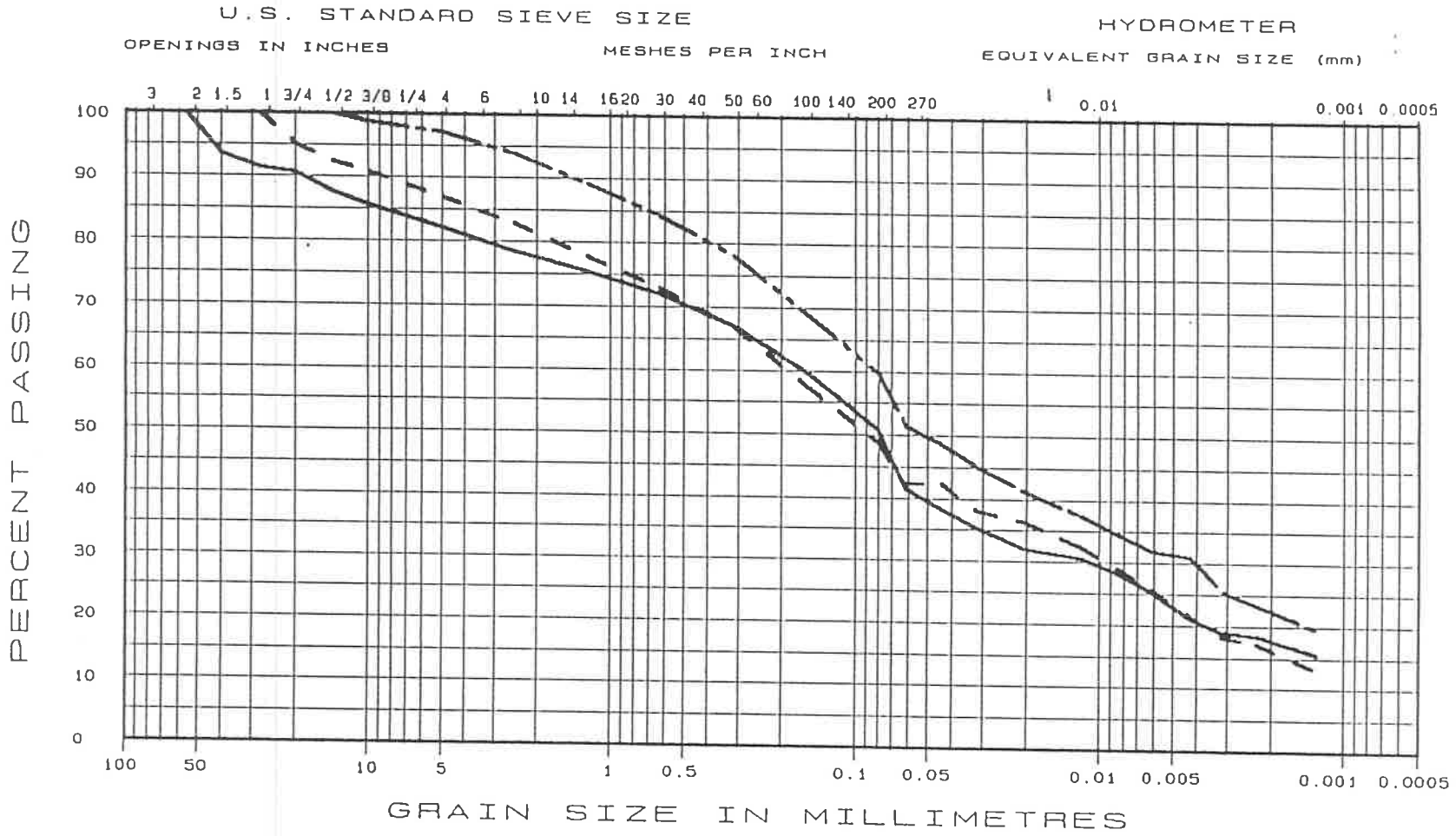
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	BH B5	SA 3	4.3 m	Sandy clay with gravel: TILL (CL)
– – –	BH B5	SA 7	14.9 m	Sandy clay: TILL (CL)

FIGURE A4.b29

30000



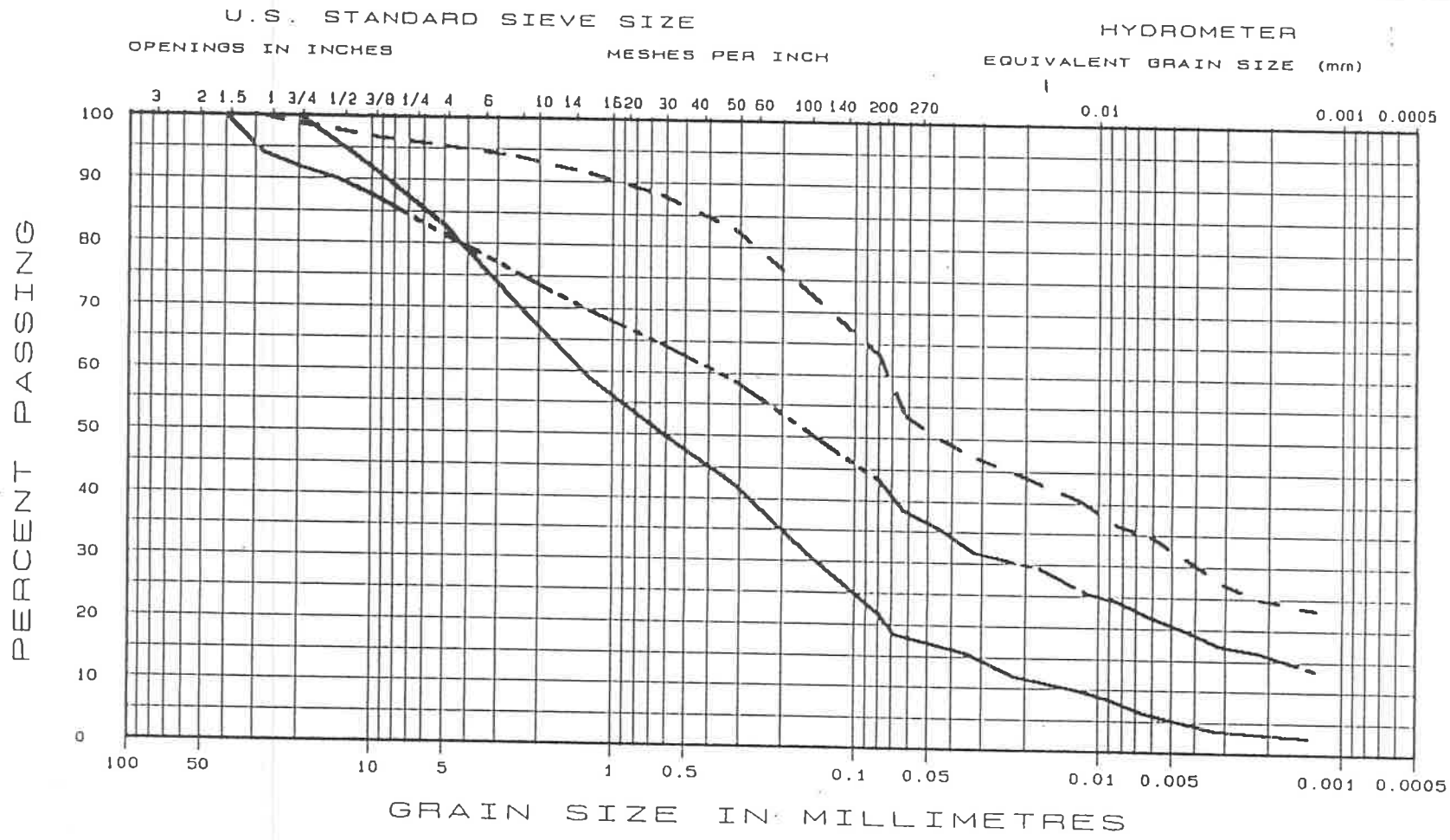
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP RD4	SA 3	3.4 m	Sandy silty clay with gravel: TILL (CL)
– – –	TP RD5	SA 2	0.6 m	Sandy silty clay with gravel: TILL (CL)
—– – –	TP RD5	SA 3	1.8 m	Sandy clay: TILL (CL)

FIGURE A4.b30

30000



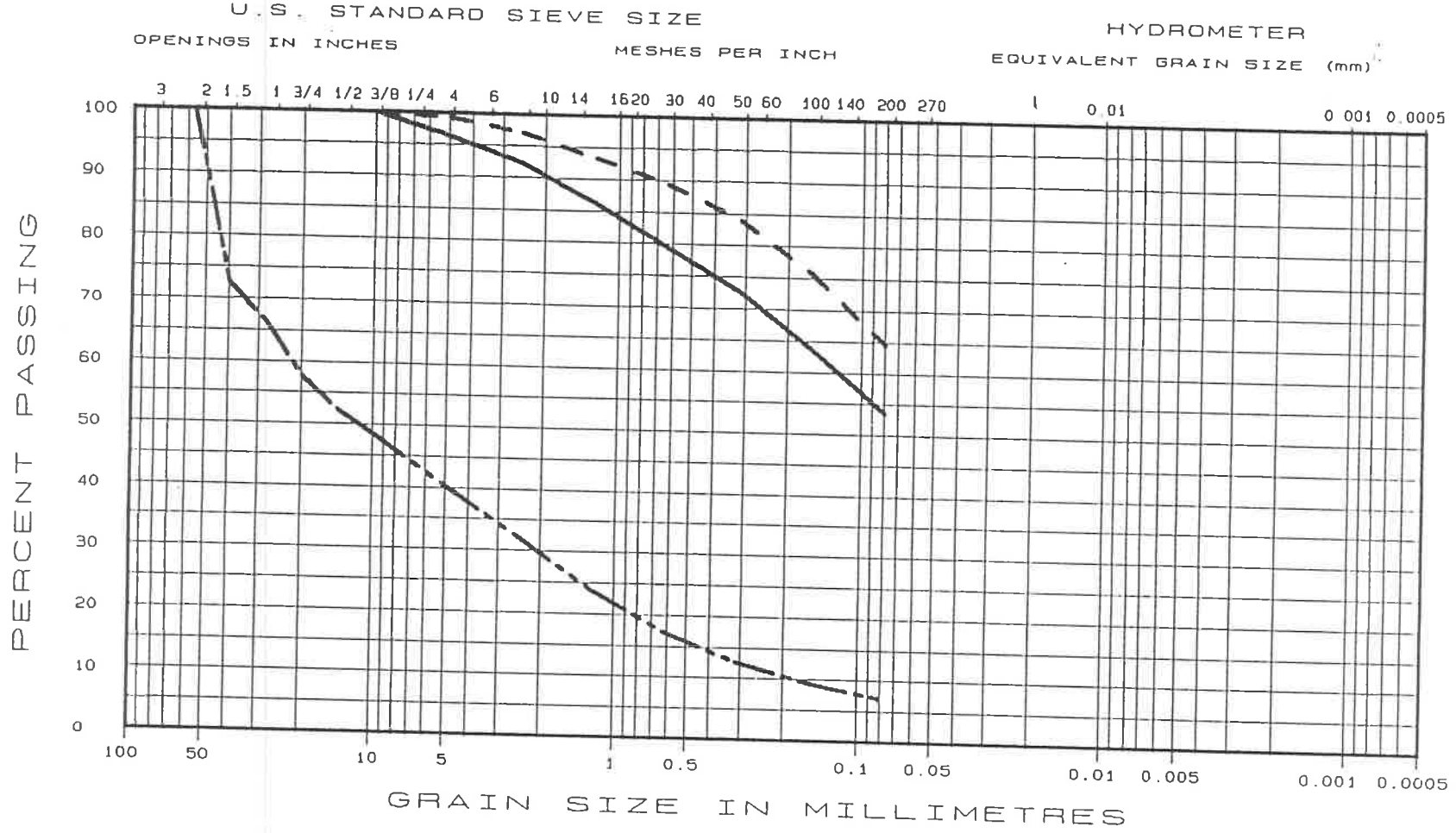
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
TP RD6	SA 1	1.1 m	Silty sand with gravel: TILL (SM)
TP RD8	SA 3	4.1 m	Sandy silt: TILL (ML)
TP RD10	SA 1	1.7 m	Clayey sand with gravel: TILL (SC)

FIGURE A4.b31

30000



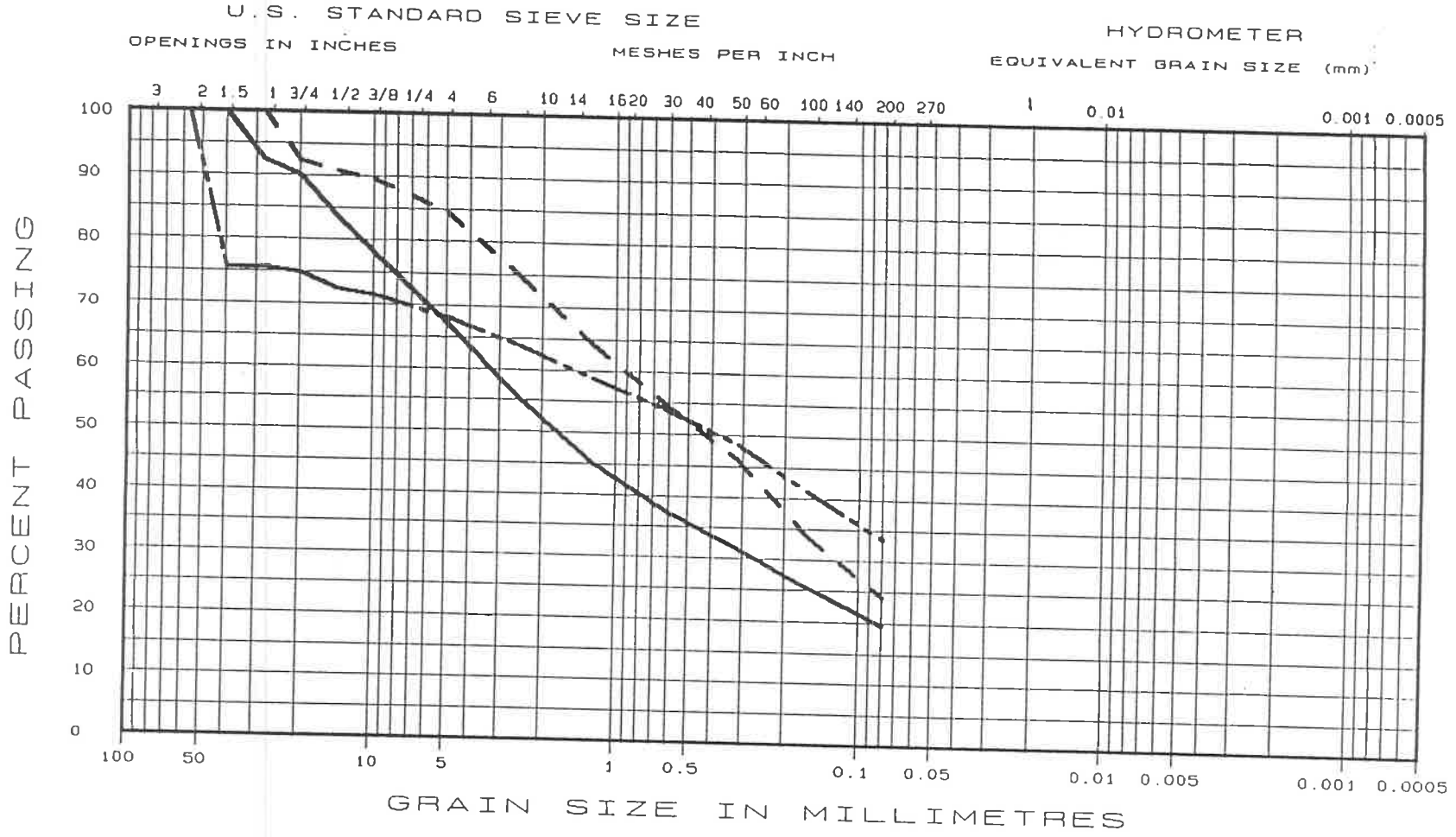
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP 101	SA 1	0.9 m	Sandy silt : TILL (ML)
– – –	TP 102	SA 1	0.5 m	Sandy silt : TILL (ML)
—·—·—	TP 103	SA 1	0.8 m	Silty GRAVEL with sand (GM)

FIGURE A4.b32

30000



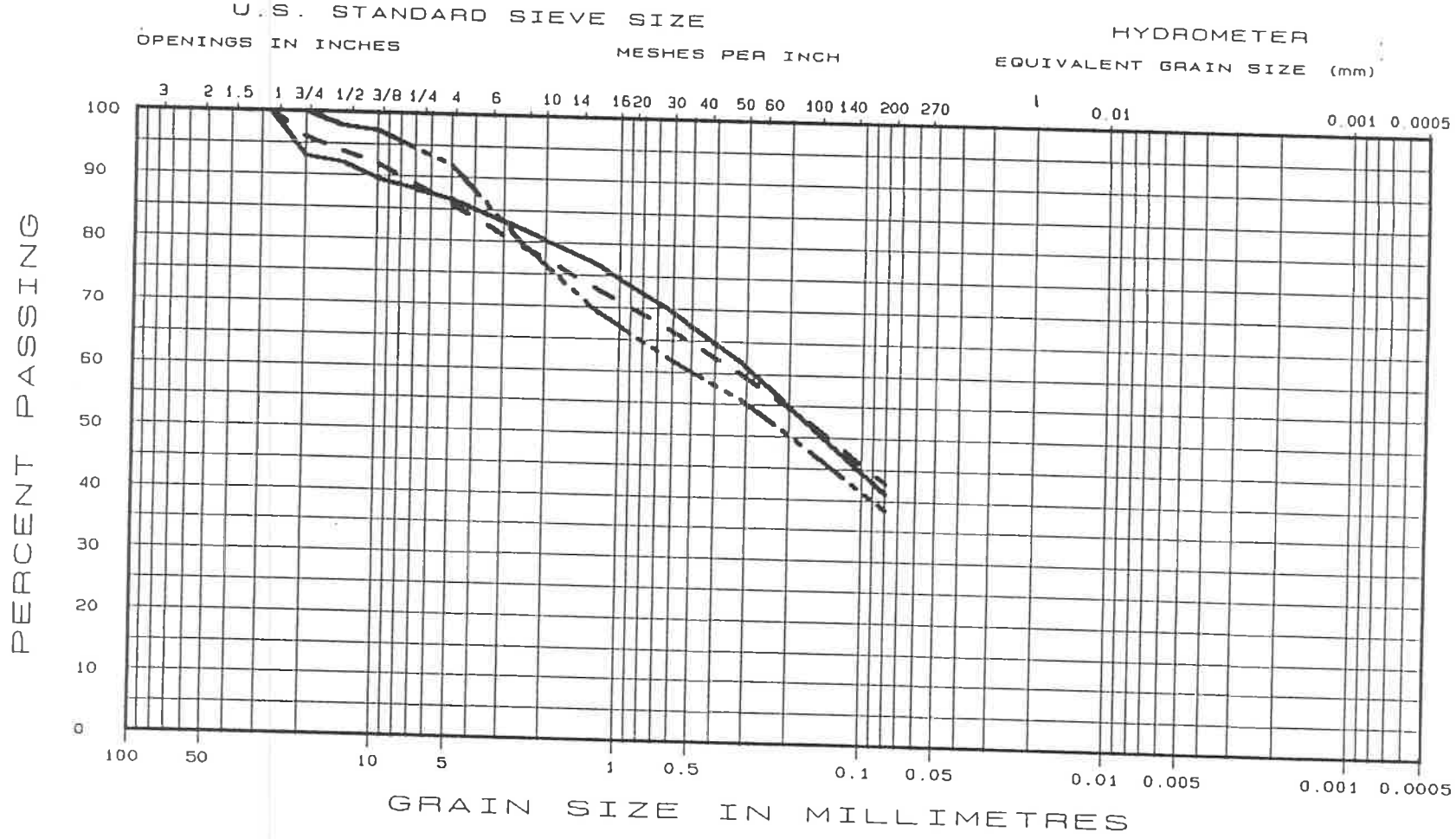
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP 105	SA 1	0.6 m	Silty sand with gravel : TILL (SM)
– – –	TP 106	SA 1	0.7 m	Silty sand with gravel : TILL (SM)
——–	TP 107	SA 4	5.0 m	Silty sand with gravel : TILL (SM)

FIGURE A4.b33

30000



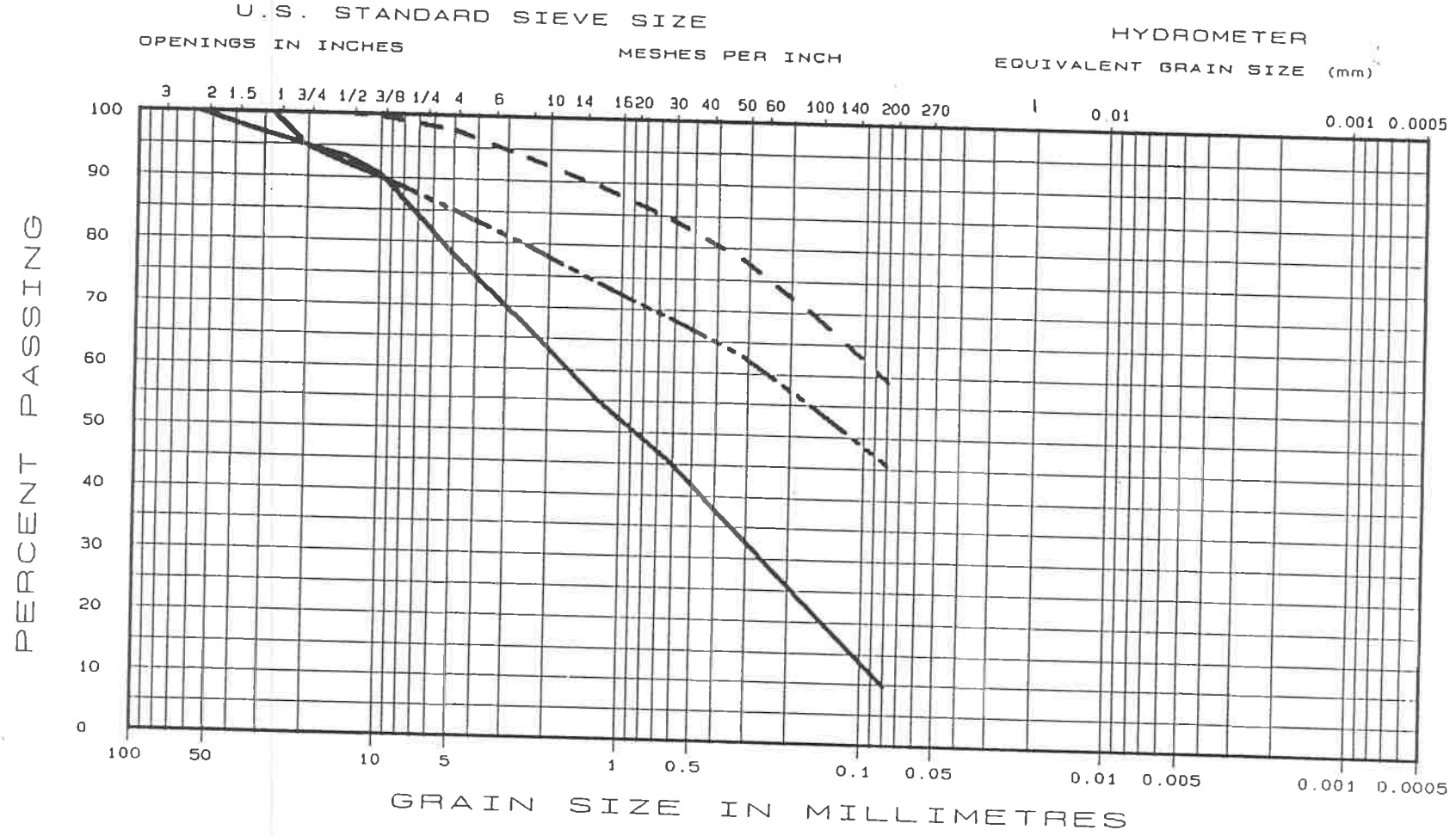
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
TP 110	SA 2	1.2 m	Silty sand with gravel : TILL (SM)
TP 110	SA 4	3.8 m	Clayey sand with gravel : TILL (SC)
TP 114	SA 1	2.30 m	Silty sand : TILL (SM)

FIGURE A4.b34

30000



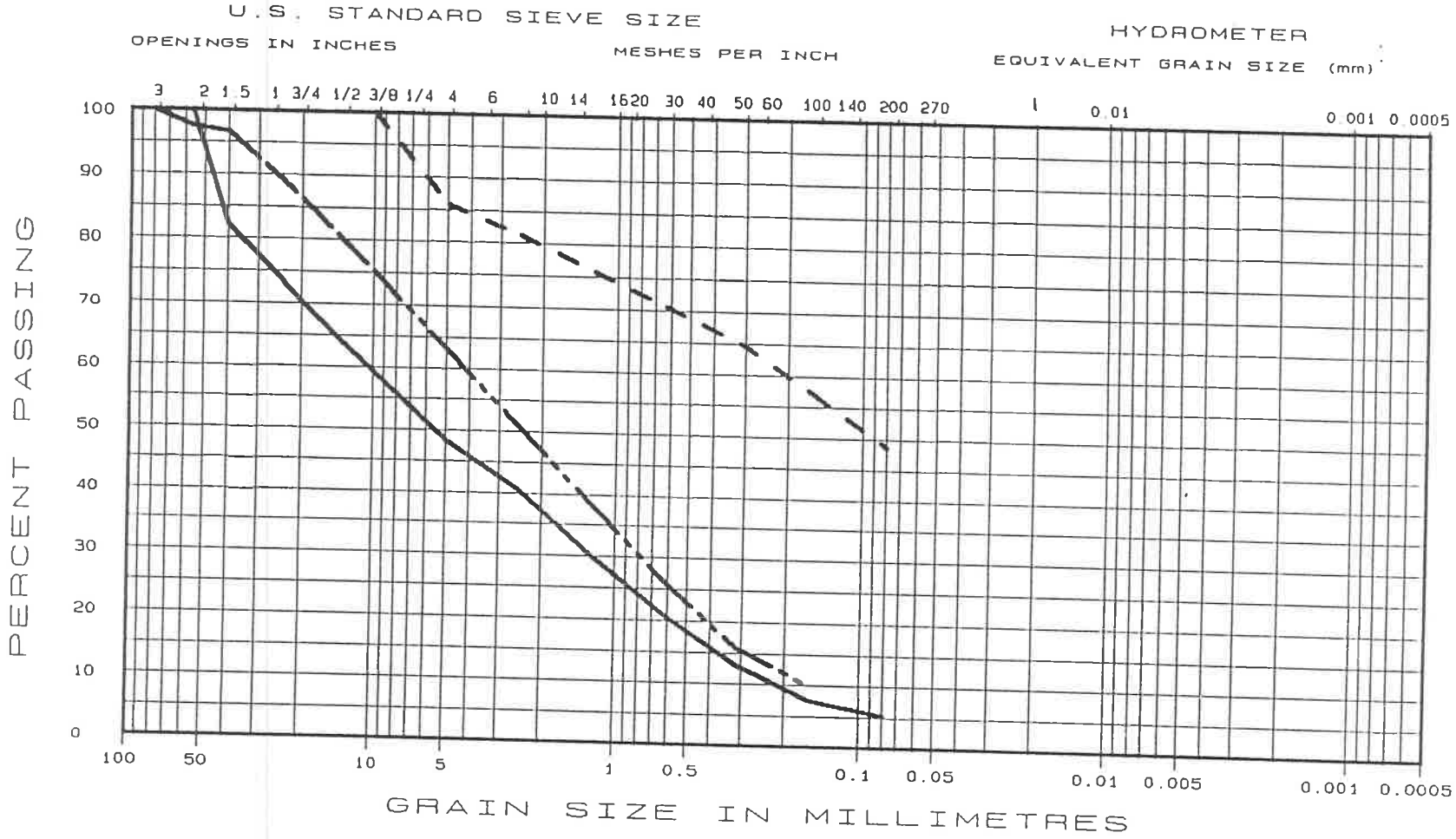
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
TP 115	SA 1	0.9 m	Silty sand with gravel : TILL (SM)
TP 117	SA 2	4.0 m	Sandy clay : TILL (CL)
TP 119	SA 1	3.4 m	Clayey sand with gravel : TILL (SC)

FIGURE A4.b35

30000



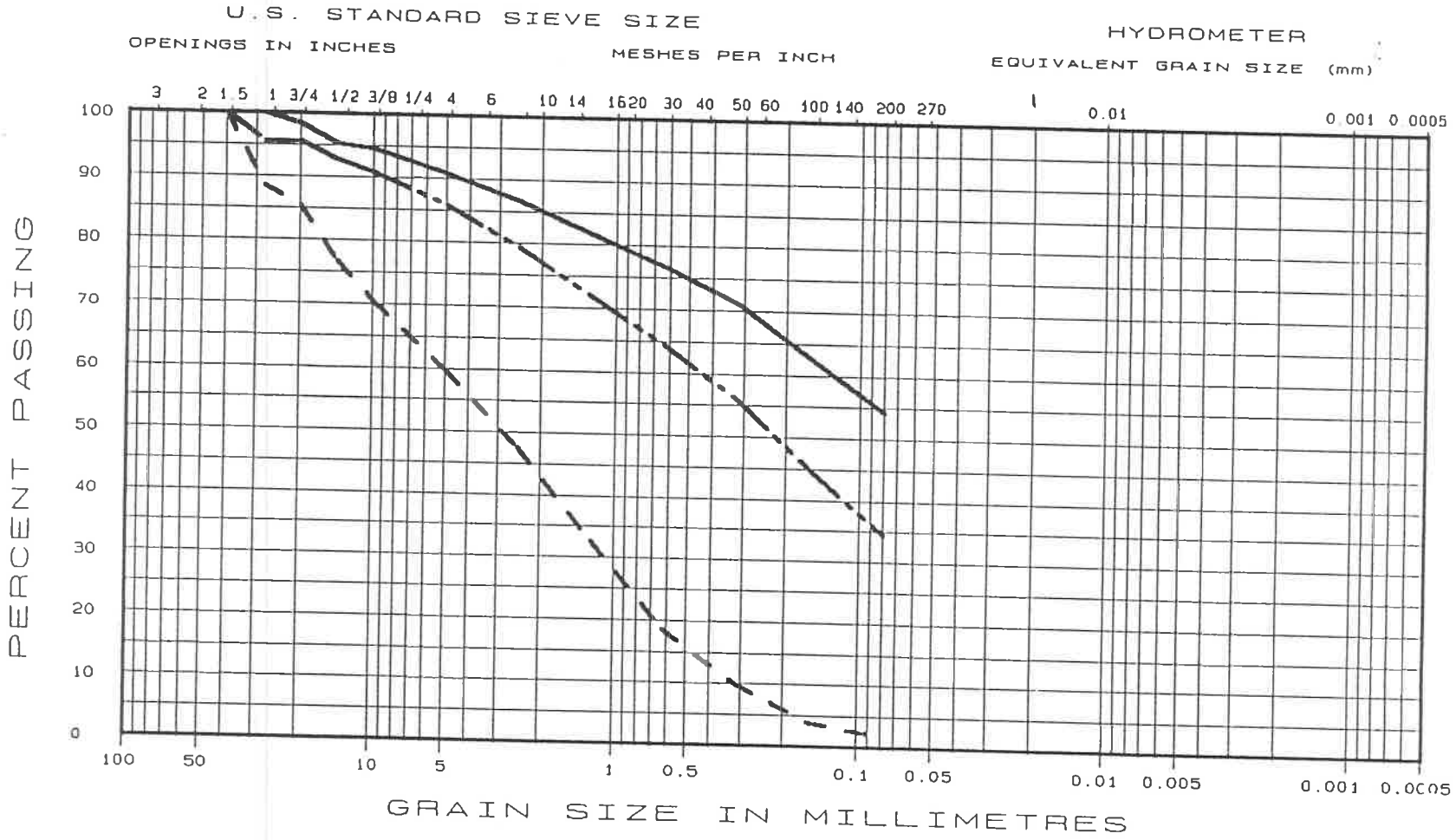
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP 120	SA 1	1.5 m	GRAVEL with sand and silt (GM)
– – –	TP 120	SA 2	4.0 m	Sandy silt with gravel : TILL (ML)
——––	TP 121	SA 1	1.2m	SAND with silt and gravel (SM)

FIGURE A4.b36

30000



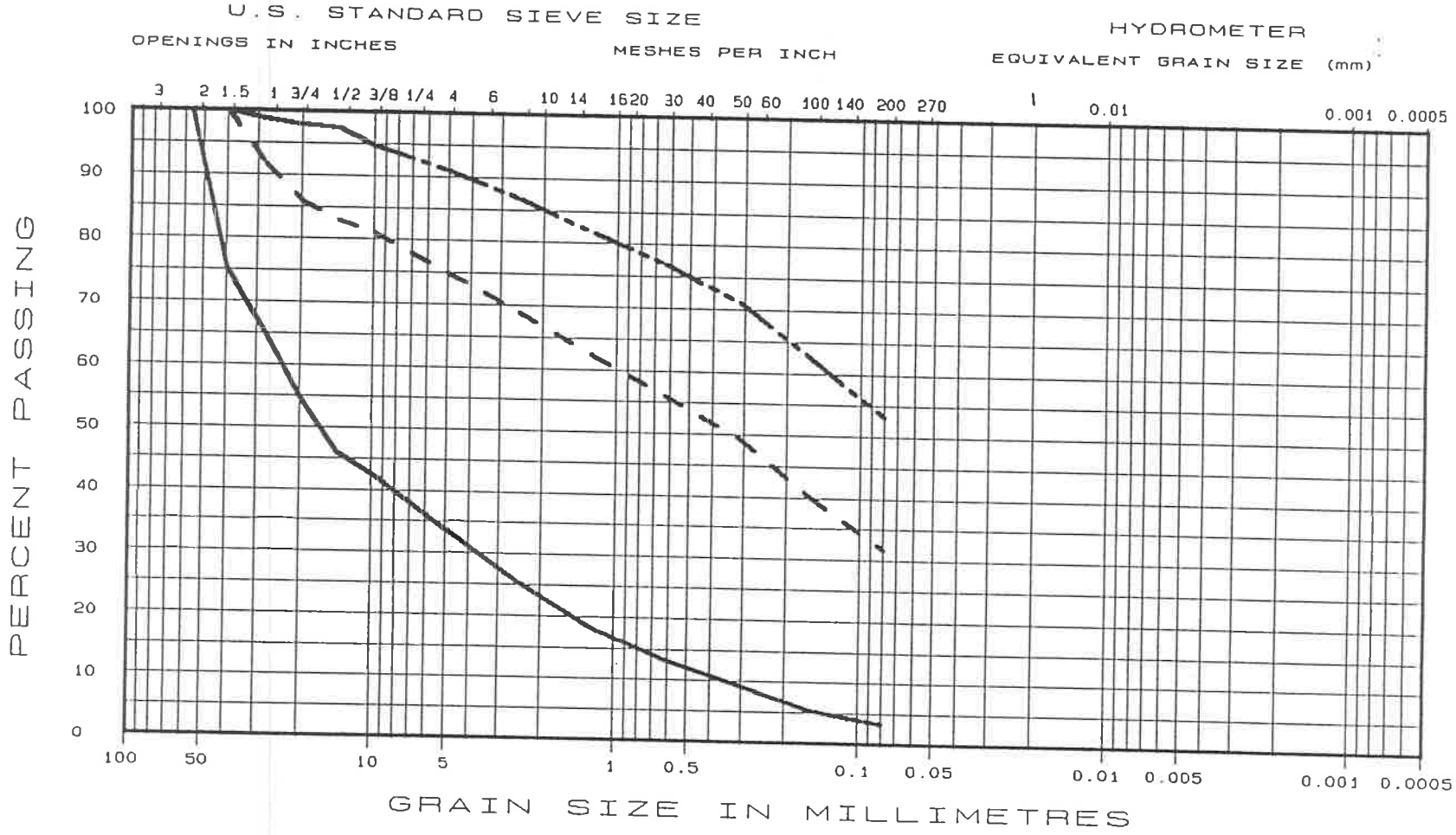
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP 122	SA 1	1.4 m	Sandy Silt (ML)
— — —	TP 123	SA 1	1.7 m	SAND with gravel (SW)
———	TP 125	SA 1	1.2 m	Silty clayey sand with gravel : TILL (SC-SM)

FIGURE A4.b37

30000



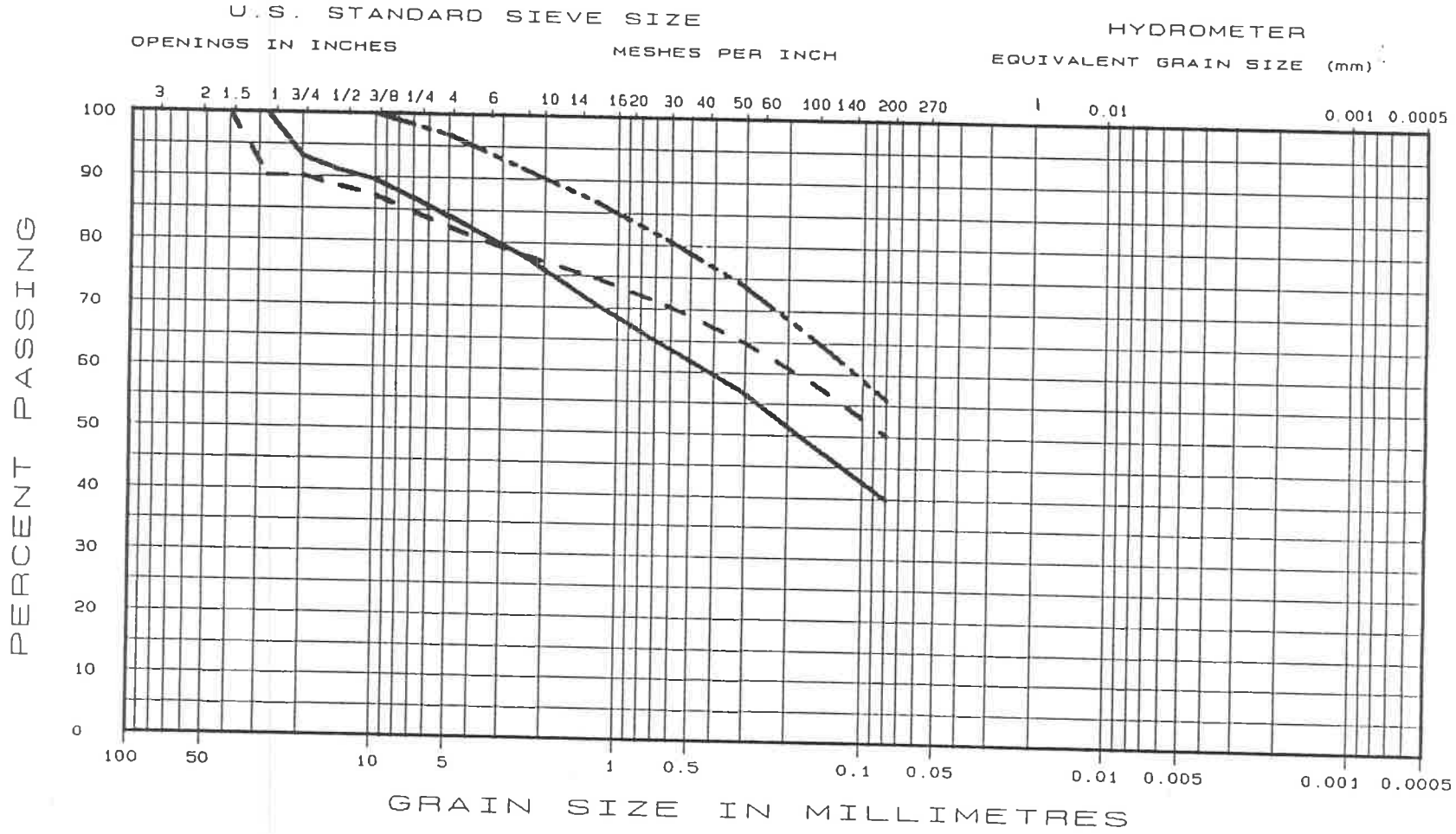
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
TP 127	SA 1	1.4 m	GRAVEL with sand
TP 129	SA 2	3.8 m	Clayey sand with gravel : TILL (SC)
TP 129	SA 3	4.4 m	Sandy clay with gravel : TILL (CL)

FIGURE A4.b38

30000



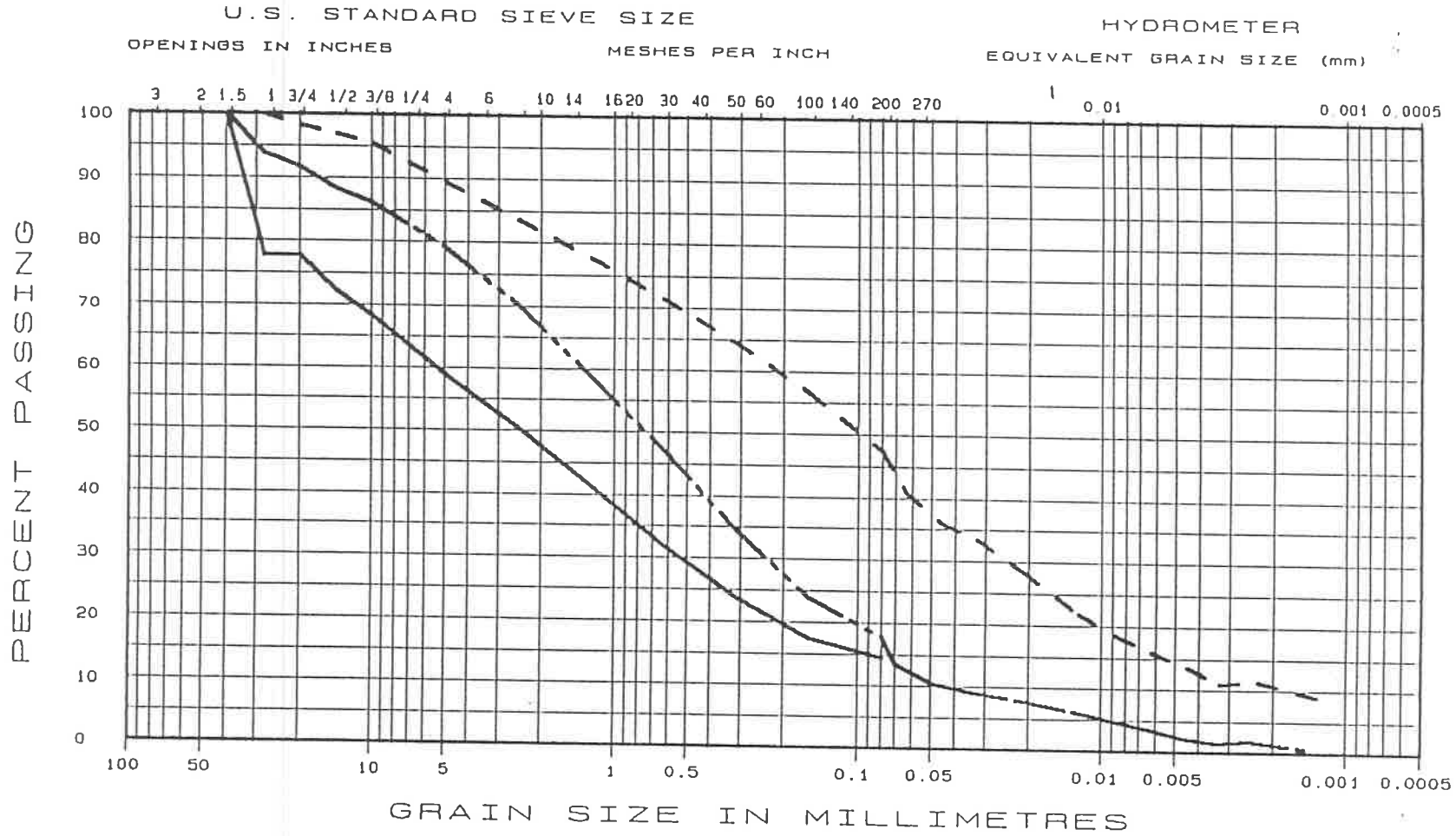
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP 131	SA 1	1.7 m	Silty sand with gravel (SM)
– – –	TP 133	SA 1	1.5 m	SAndy clay with gravel : TILL (CL)
——– –	TP 136	SA 1	2.1 m	Sandy clay : TILL (CL)

FIGURE A4.b39

30000



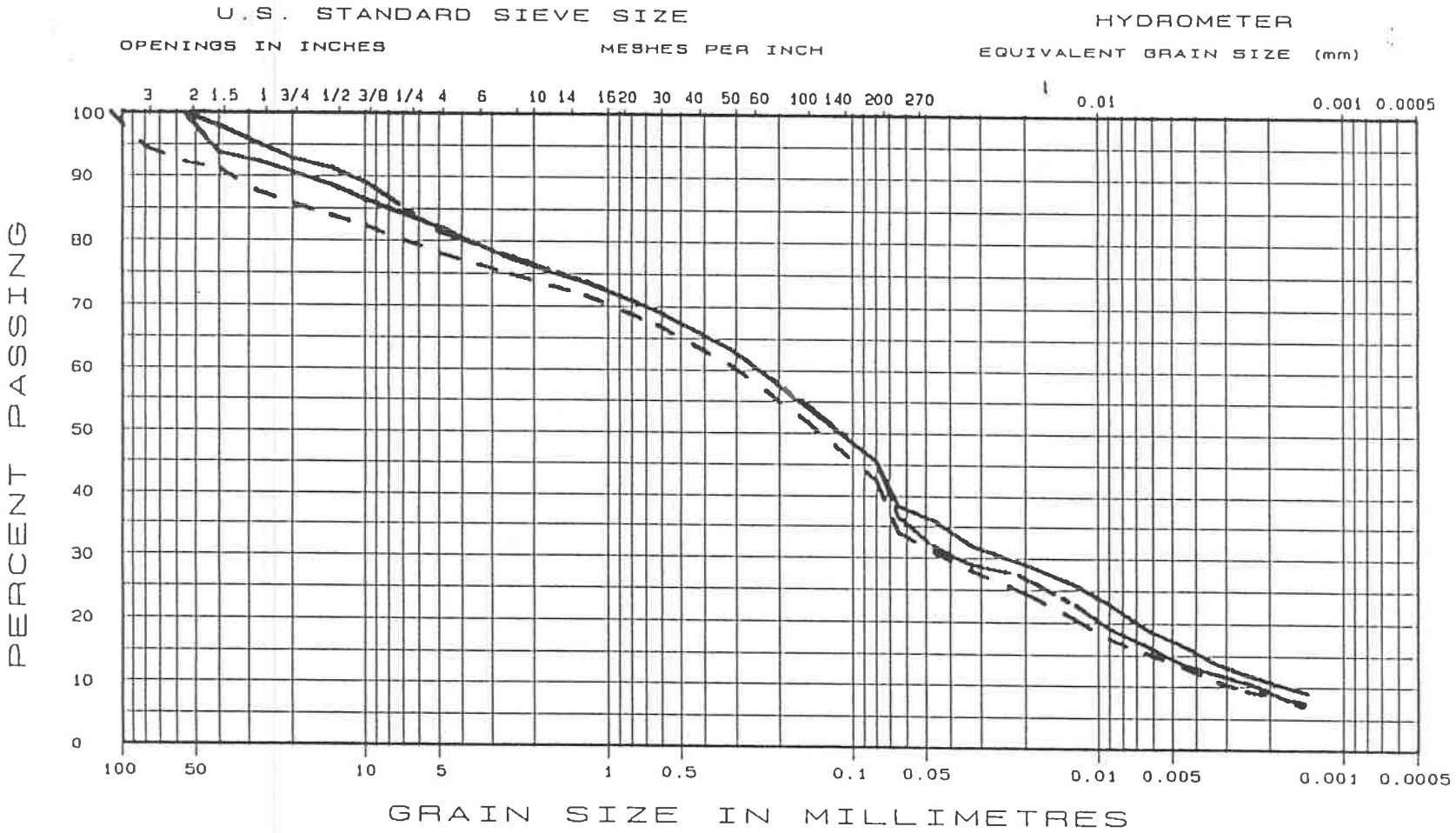
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP RD9	SA 2	1.1 m	Silty sand with gravel: TILL (SM)
– – –	TP RD9	SA 3	1.2 m	Clayey sand: TILL (SC)
—·—·—	TP RD9	SA 4	2.3 m	Silty sand with gravel: TILL (SM)

FIGURE A4.b40

30000



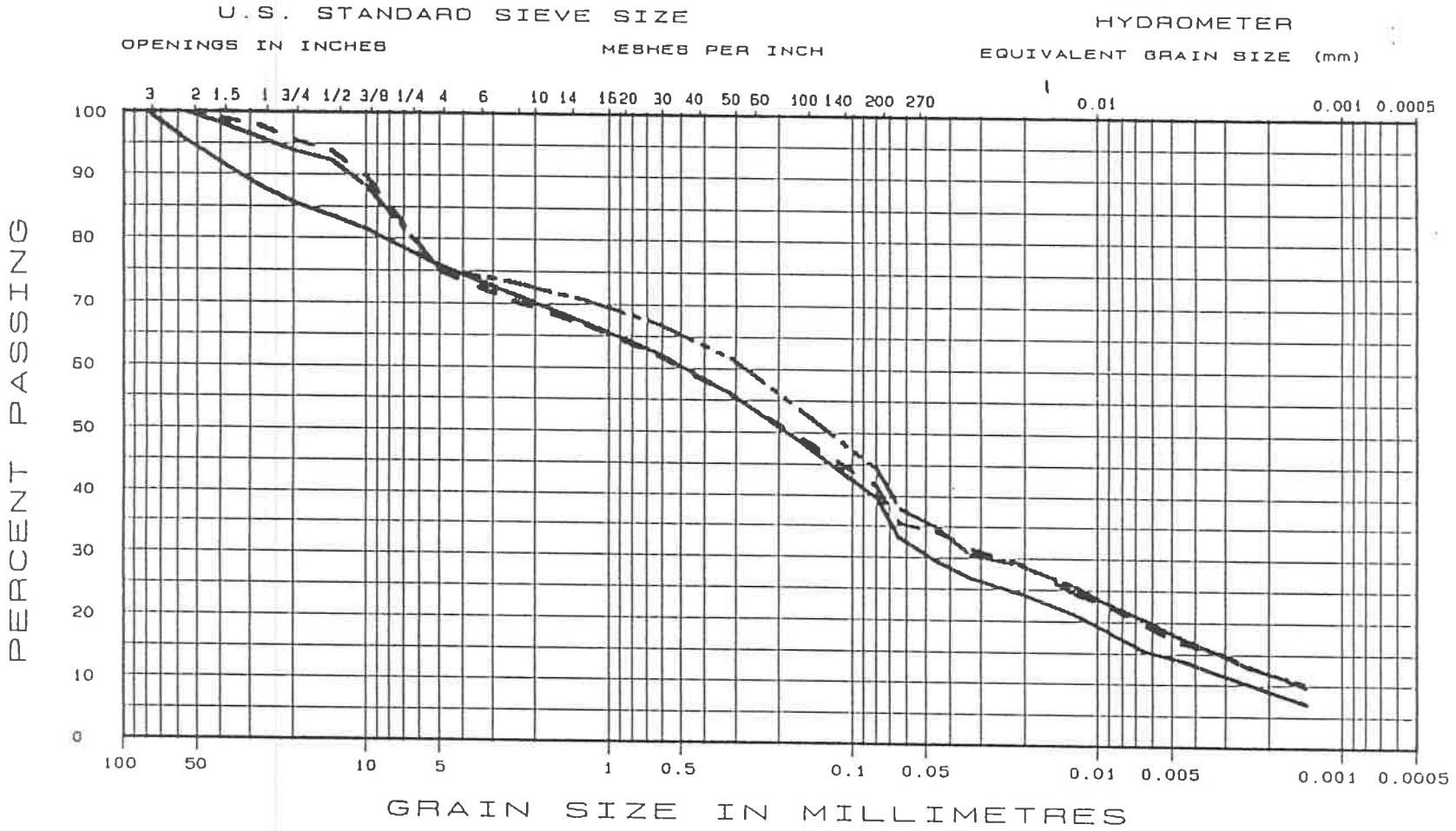
GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP B1	SA 2	0.8 m	Clayey sand with gravel: TILL (SC)
— — —	TP B1	SA 4	2.6 m	Silty sand with gravel: TILL (SM)
———	TP B1	SA 5	4.3 m	Silty, clayey sand with gravel: TILL (SC-

FIGURE A4.b41

30000



GRAVEL		SAND			SILT & CLAY
Coarse	Fine	Coarse	Medium	Fine	

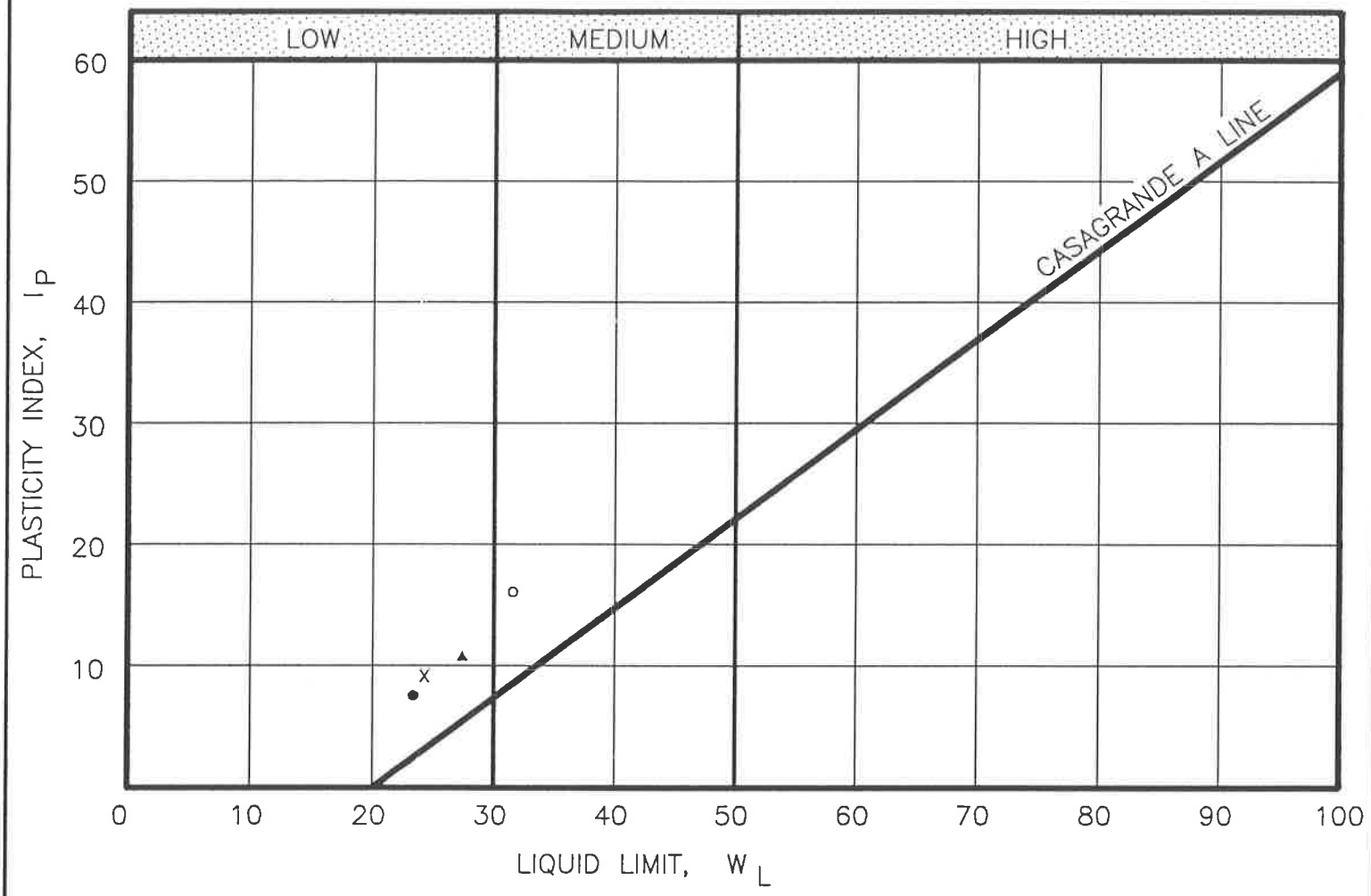
Unified Soil Classification

	LOCATION	SAMPLE	DEPTH	DESCRIPTION OF STRATUM
———	TP B2	SA 3	1.5 m	Clayey sand with gravel: TILL (SC)
— — —	TP B2	SA 4	3.0 m	Clayey sand with gravel: TILL (SC)
—·—·—	TP B2	SA 5	4.6 m	Clayey sand with gravel: TILL (SC)

FIGURE A4.b42

APPENDIX 4c

PLASTICITY CHARTS



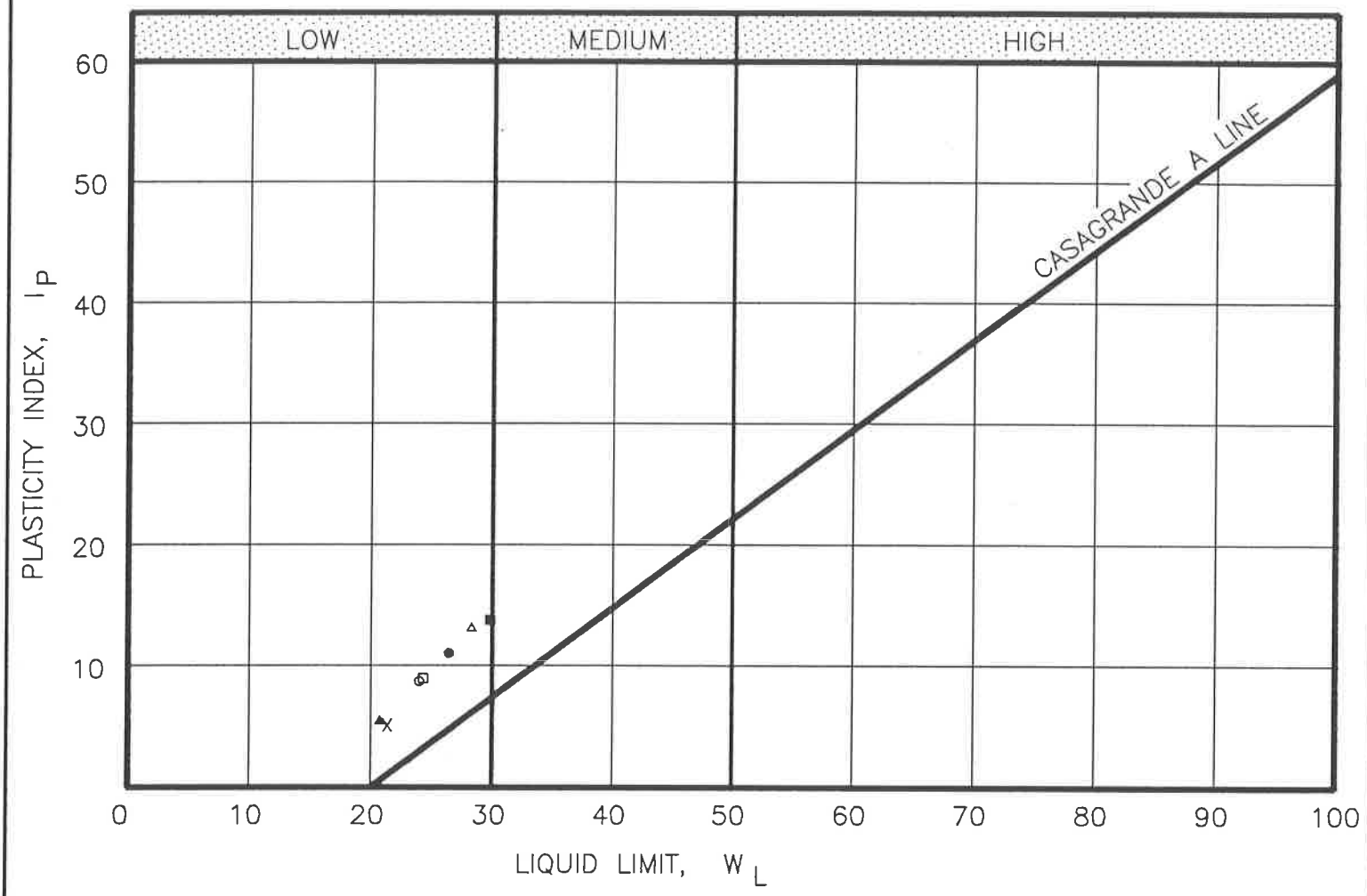
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
x	3	3m	Sandy clay (CL): TILL
•	6	7m	Clayey sand with gravel (SC): TILL
▲	11	15.5m	Sandy clay (CL): TILL
o	14	21.6m	Sandy clay (CL): TILL

PLASTICITY CHART BOREHOLE B1

BHB1PLST.DWG 96/06/14

30000–100404

FIGURE A4.C1



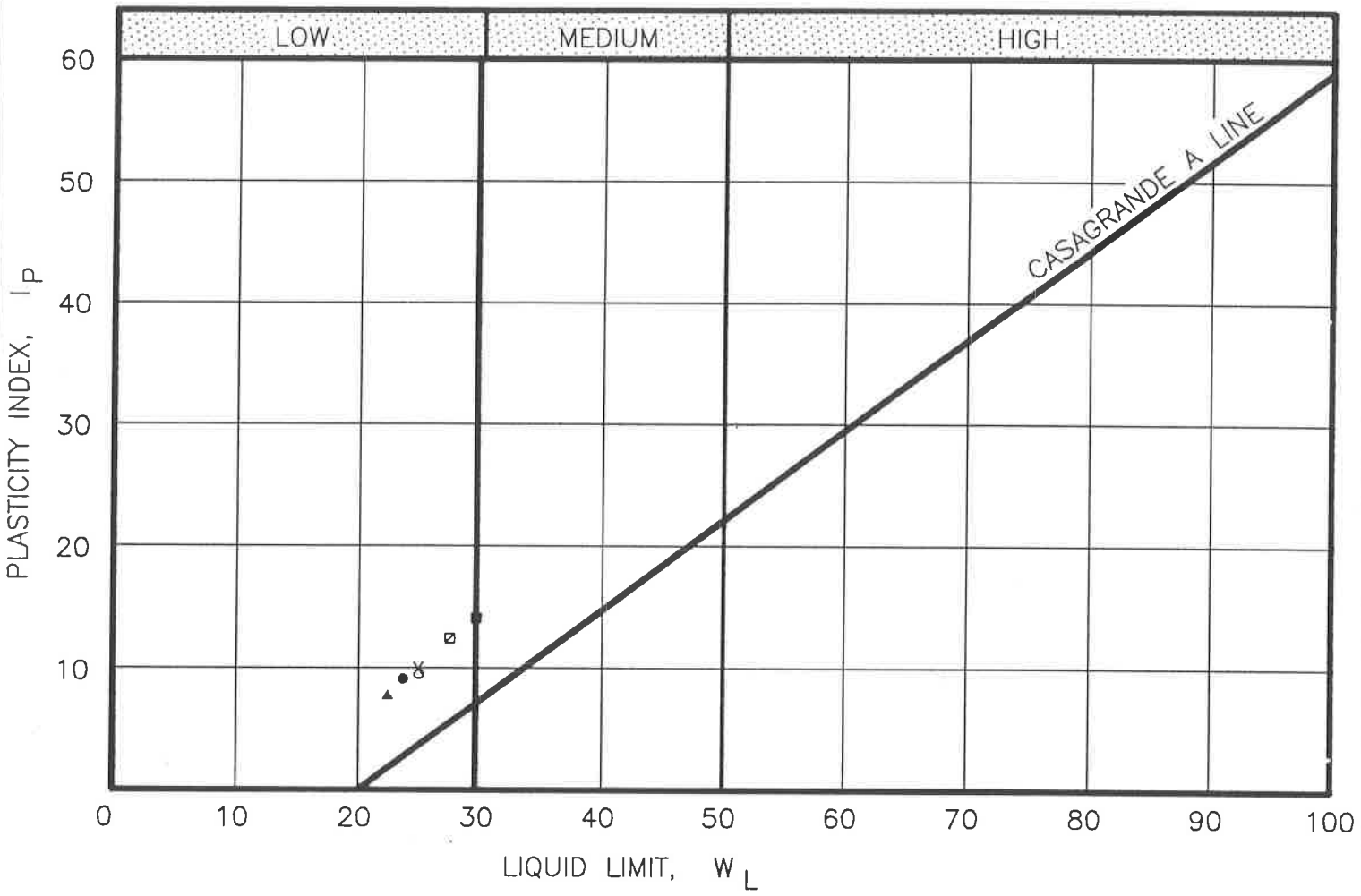
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
x	3	2.1m	Silty, clayey sand with gravel (SC–SM): TILL
●	4	4m	Clayey sand with gravel (SC): TILL
▲	6	7m	Silty, clayey sand (SC–SM): TILL
○	7	8.8m	Clayey sand (SC): TILL
□	11	15.8m	Sandy clay (CL): TILL
△	12	19.2m	Sandy clay with gravel (CL): TILL
■	13	22.3m	Sandy clay with gravel (CL): TILL

PLASTICITY CHART BOREHOLE B2

BHB2PLST.DWG 96/06/14

30000–100404

FIGURE A4.C2



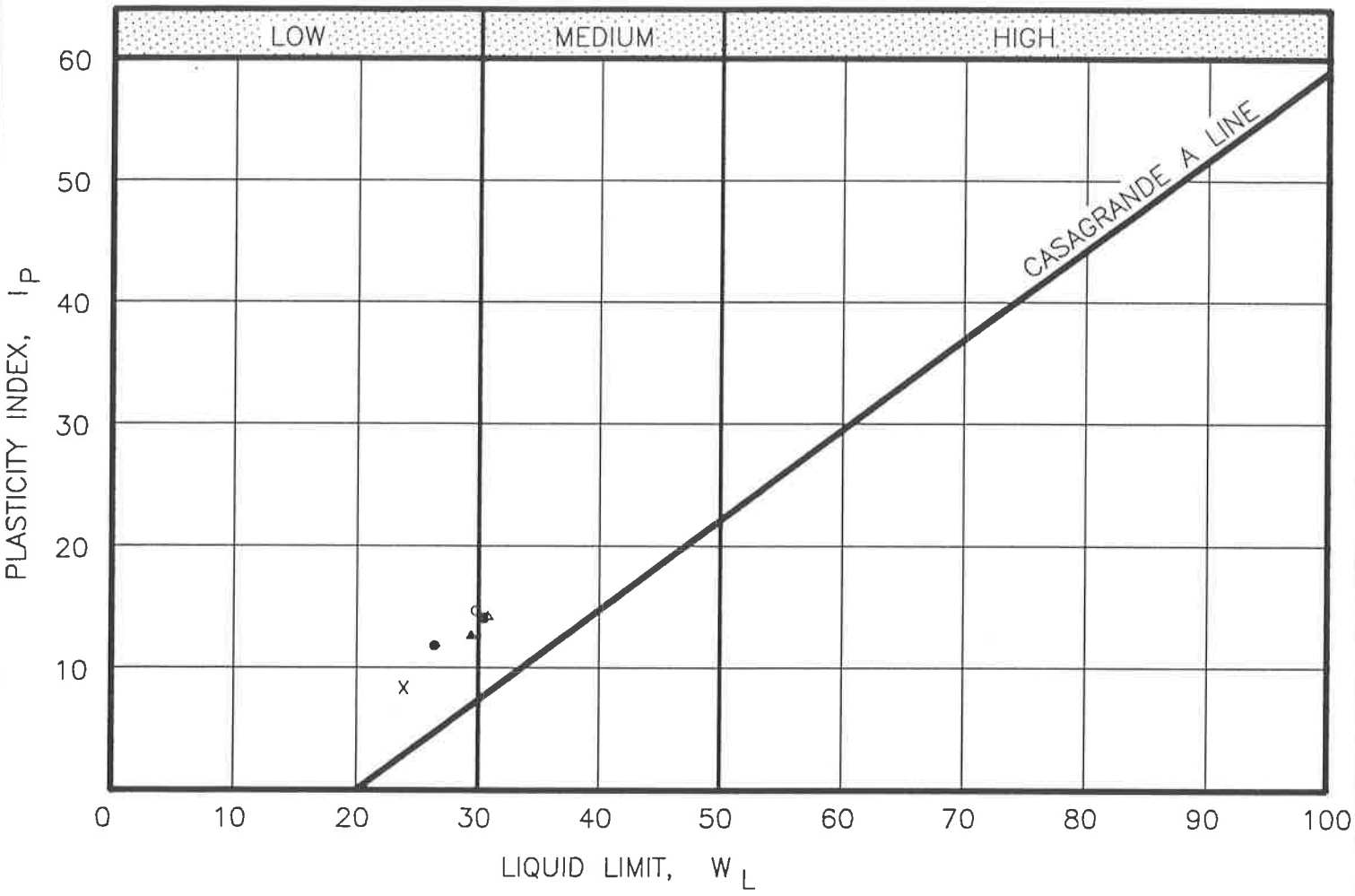
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
x	2	1.8m	Sandy clay (CL): TILL
o	3	3.4m	Clayey sand (SC): TILL
▲	6	7.6m	Clayey sand (SC): TILL
●	8	11.3m	Clayey sand (SC): TILL
■	10	14.9m	Sandy clay (CL): TILL
▫	13	21.0m	Sandy clay (CL): TILL

PLASTICITY CHART BOREHOLE B3

BHB3PLST.DWG 96/07/29

30000–100404

FIGURE A4.C3



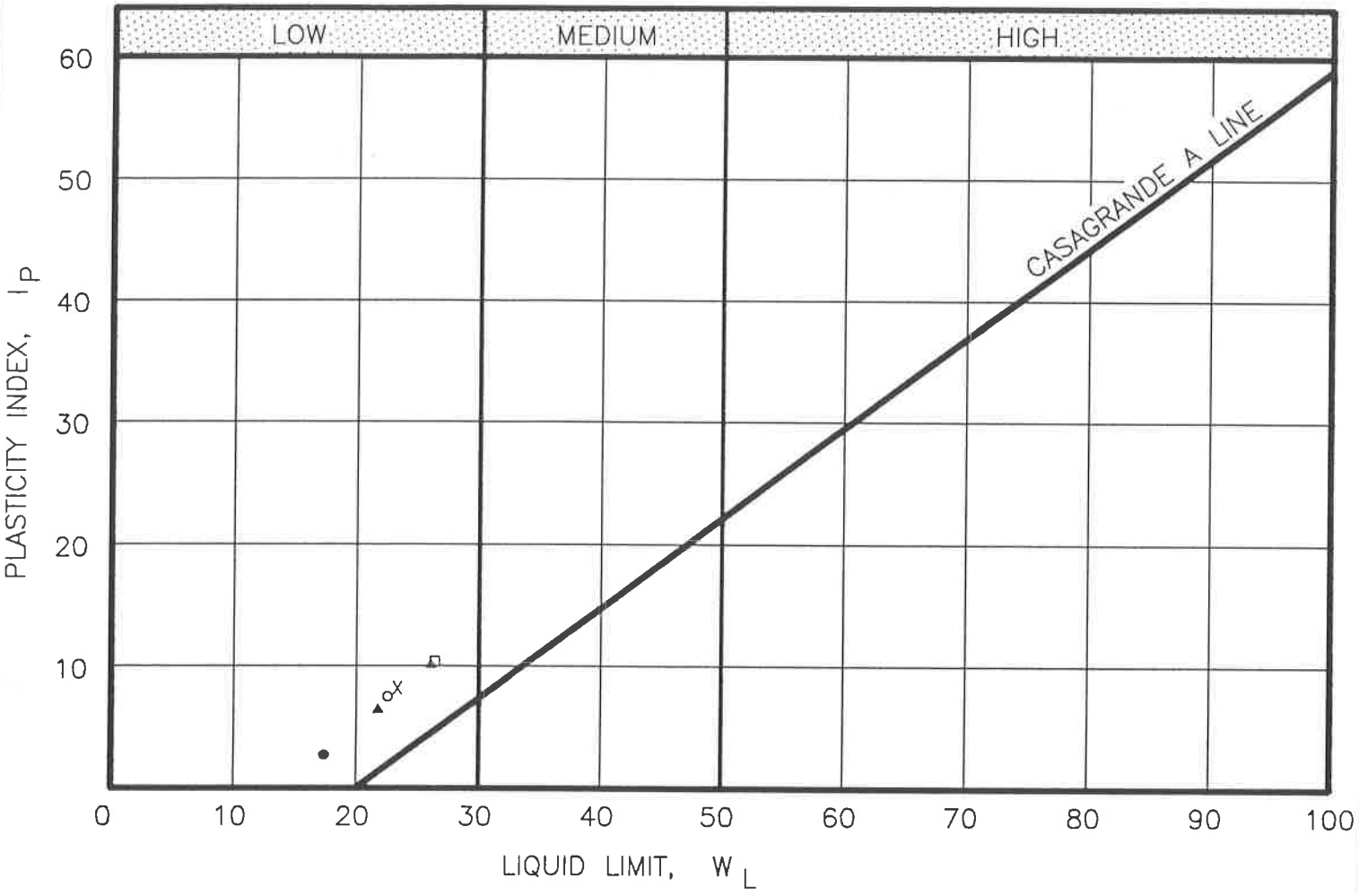
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
x	2	1.5m	Sandy clay with gravel (CL): TILL
●	3	4.3m	Sandy clay with gravel (CL): TILL
△	5	8.5m	Sandy clay (CL): TILL
○	6	11.9m	Sandy clay (CL): TILL
■	7	14.9m	Sandy clay (CL): TILL
▲	8	16.5m	Sandy clay (CL): TILL

PLASTICITY CHART BOREHOLE B5

BH85PLST.DWG 96/06/14

30000–100404

FIGURE A4.C4



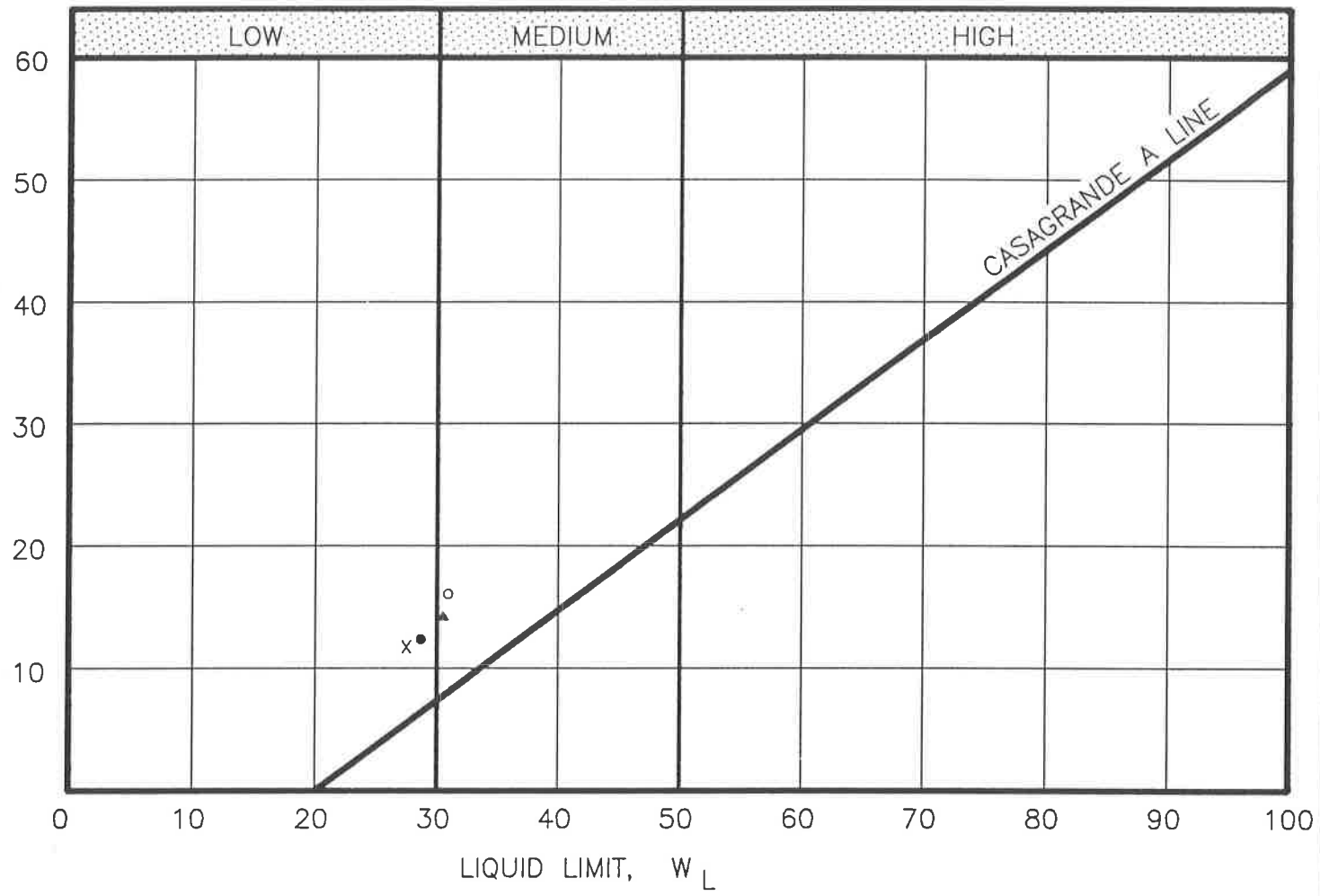
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
x	TP B1 SA1	.8m	Clayey sand with gravel (SC): TILL
•	TP B1 SA2	2.6m	Silty sand with gravel (SM): TILL
▲	TP B1 SA3	4.3m	Silty clayey sand with gravel (SC–SM): TILL
○	TP B2 SA1	1.5m	Clayey sand with gravel (SC): TILL
□	TP B2 SA2	3m	Clayey sand with gravel (SC): TILL
△	TP B2 SA3	4.6m	Clayey sand with gravel (SC): TILL

PLASTICITY CHART TEST PIT B1 AND B2

TPB1_2.DWG 96/06/14

30000–100404

FIGURE A4.C5



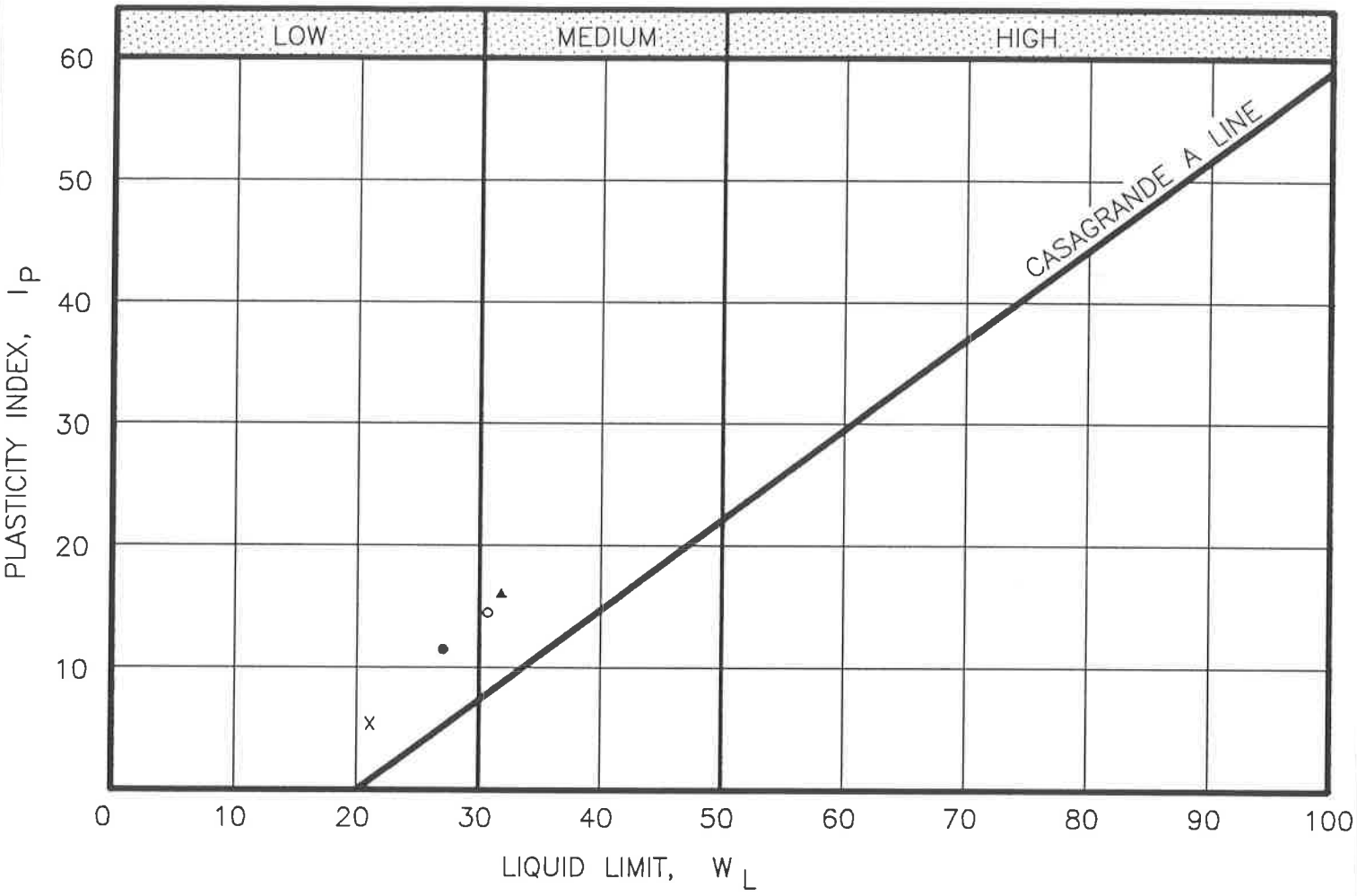
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
x	3	1.7m	Sandy clay (CL): TILL
●	4	2.3m	Sandy clay (CL): TILL
▲	7	4.2m	Sandy clay (CL): TILL
o	10	6.1m	Sandy clay (CL): TILL

PLASTICITY CHART BOREHOLE RD-1

RD1PLAST.DWG 96/06/14

30000-100404

FIGURE A4.C6



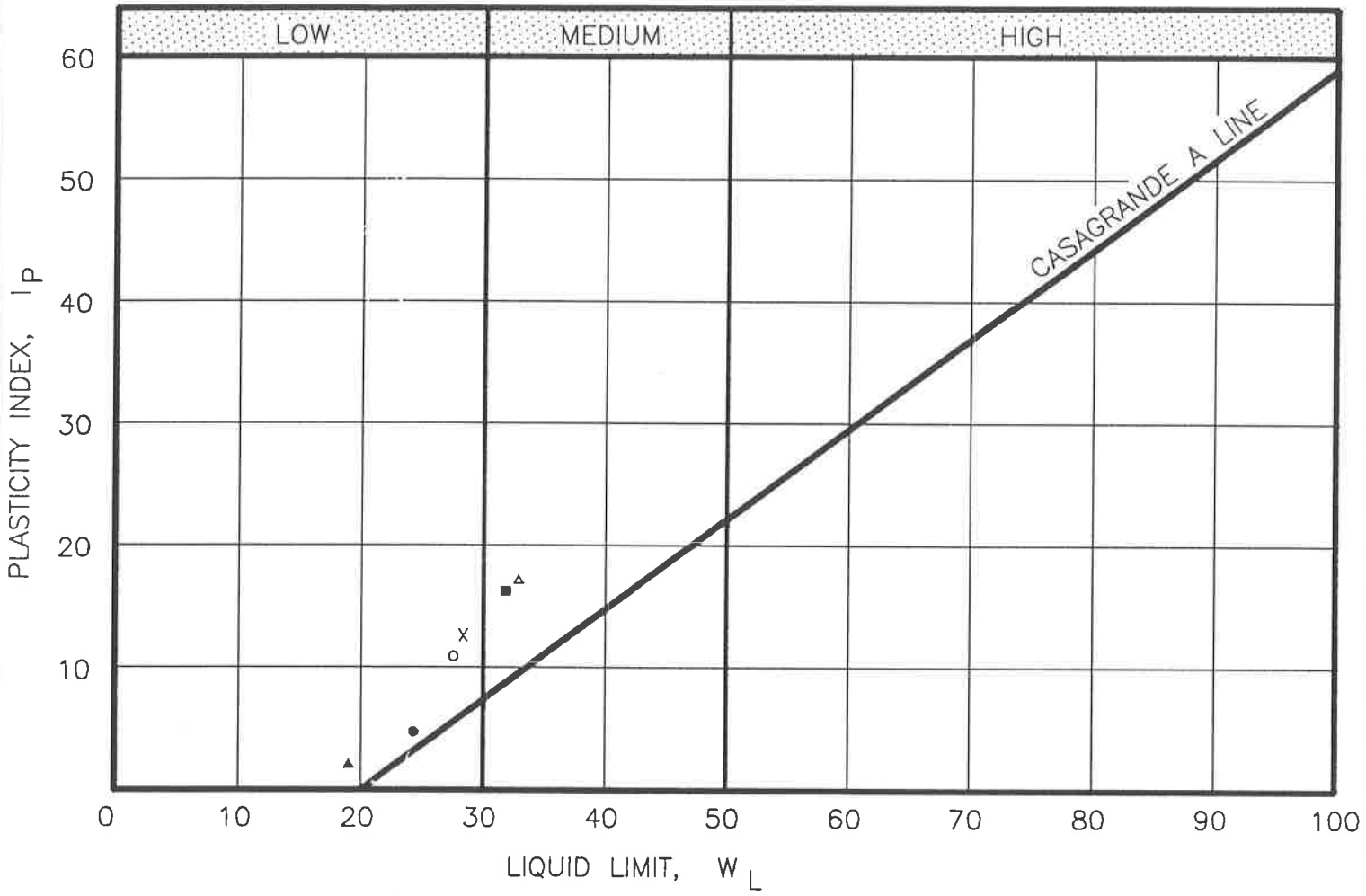
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
▲	RD2 SA 4A	3.4m	Sandy clay (CL): TILL
o	RD2 SS 5	4.7m	Sandy clay (CL): TILL
x	RD7 SA 2	1.5m	Silty clayey sand (SC–SM): TILL
•	RD7 SA 4	3.4m	Sandy clay (CL): TILL

PLASTICITY CHART BOREHOLE RD–2 AND RD–7

RD2_RD7.DWG 96/06/14

30000–100404

FIGURE A4.C7



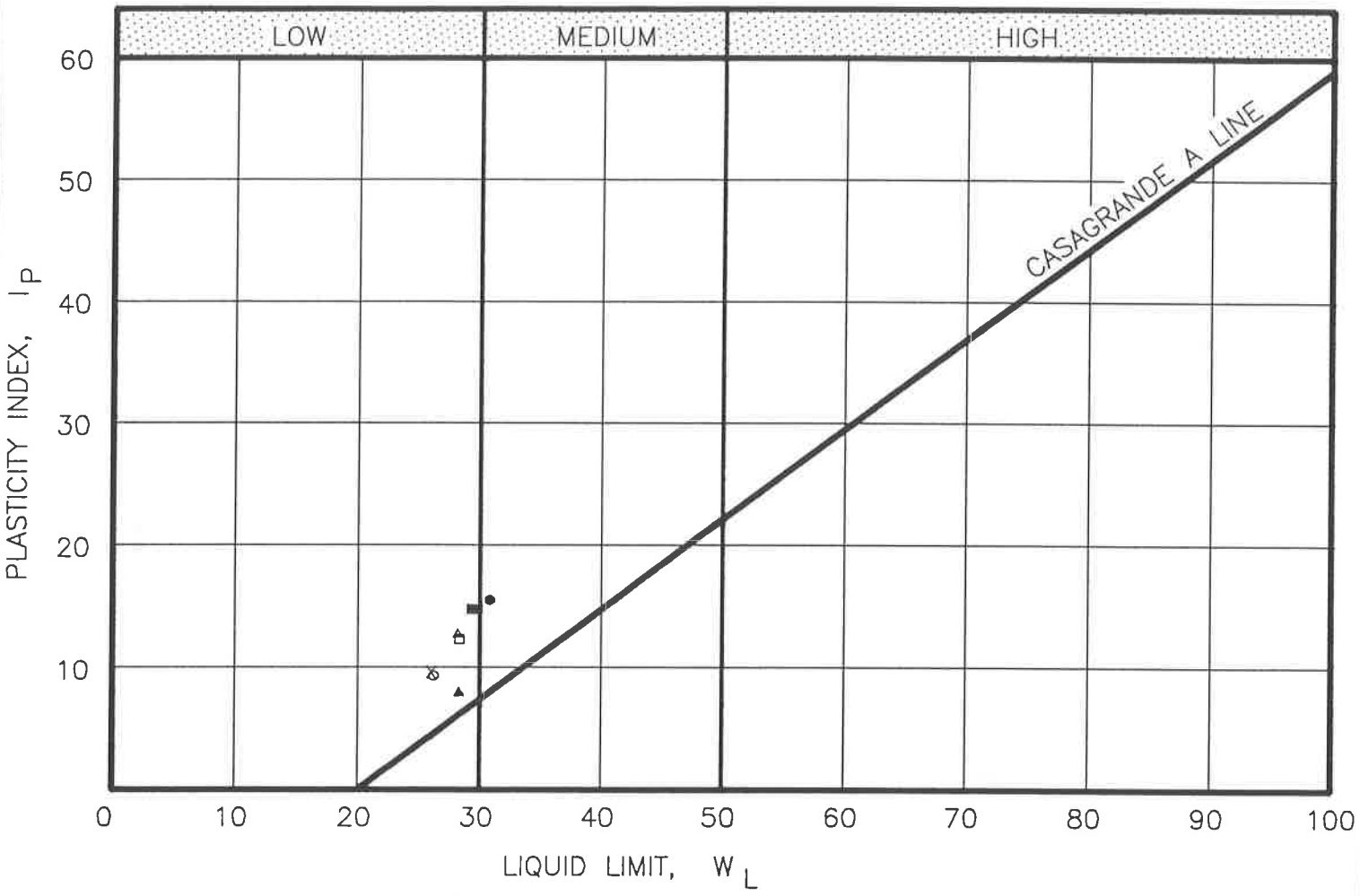
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
●	RD8 2	0.9m	Silty clayey sand (SC–SM): TILL
■	RD8 4	2.1m	Sandy clay (CL): TILL
△	RD8 6	3.4m	Sandy clay (CL): TILL
▲	RD9 2A	0.8m	Sandy silt (ML)
o	RD9 3	1.6m	Sandy clay (CL): TILL
x	RD9 5	2.9m	Sandy clay (CL): TILL

PLASTICITY CHART BOREHOLE RD–8 AND RD–9

RD8_RD9.DWG 96/06/14

30000–100404

FIGURE A4.C8



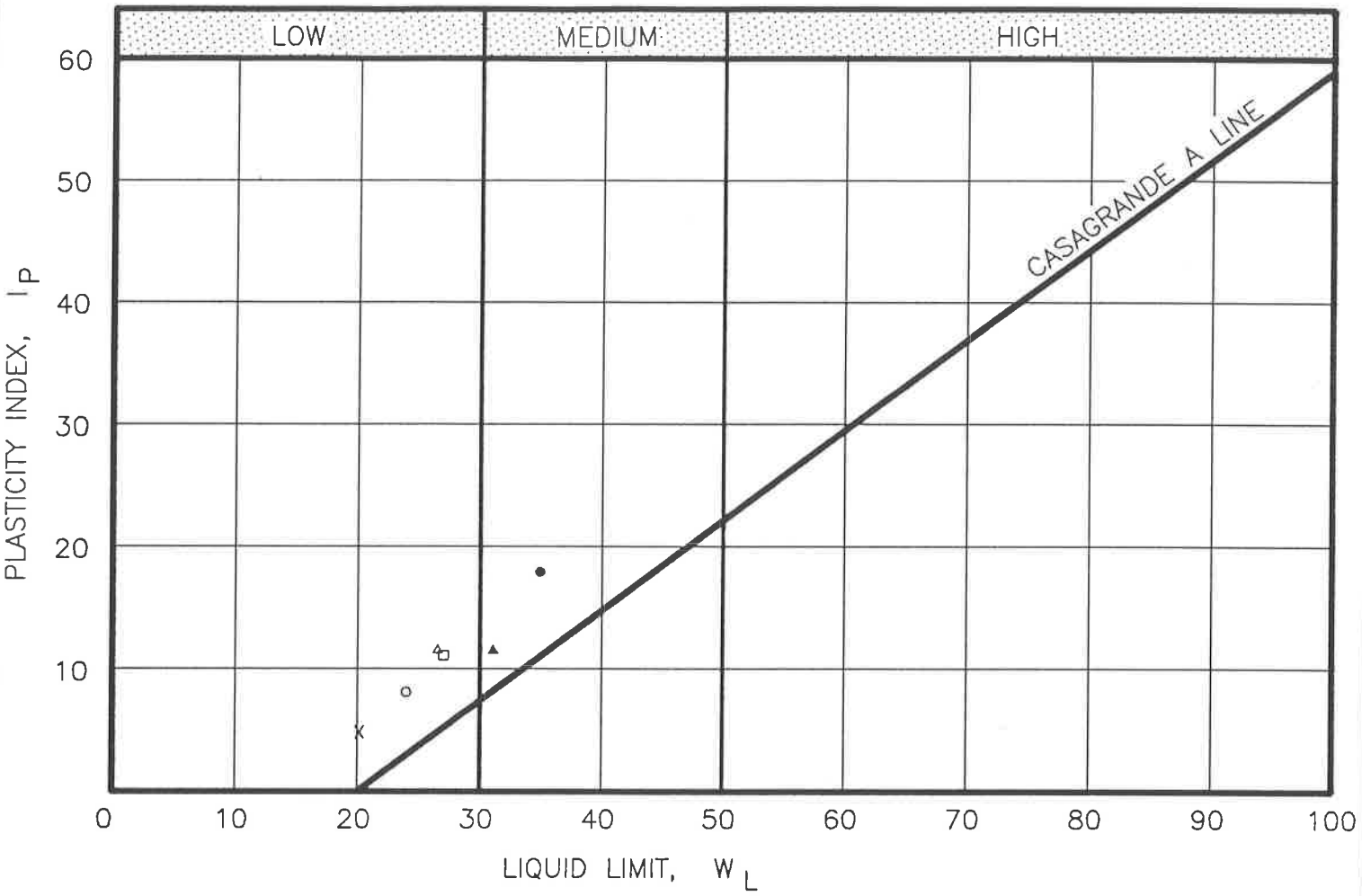
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
▲	RD10 2B	1.10m	Sandy clay (CL): TILL
o	RD10 4	2.10m	Sandy clay (CL): TILL
x	RD13 2B	1.35m	Sandy clay (CL): TILL
●	RD13 4	2.13m	Sandy clay (CL): TILL
△	RD14 5	3.56m	Sandy clay with gravel (CL): TILL
■	RD14 6	4.93m	Sandy clay (CL): TILL
□	RD14 8B	7.98m	Sandy clay (CL): TILL

PLASTICITY CHART
BOREHOLE RD-10, RD-13 & R-14

RD10RD14.DWG 96/06/14

30000-100404

FIGURE A4.C9



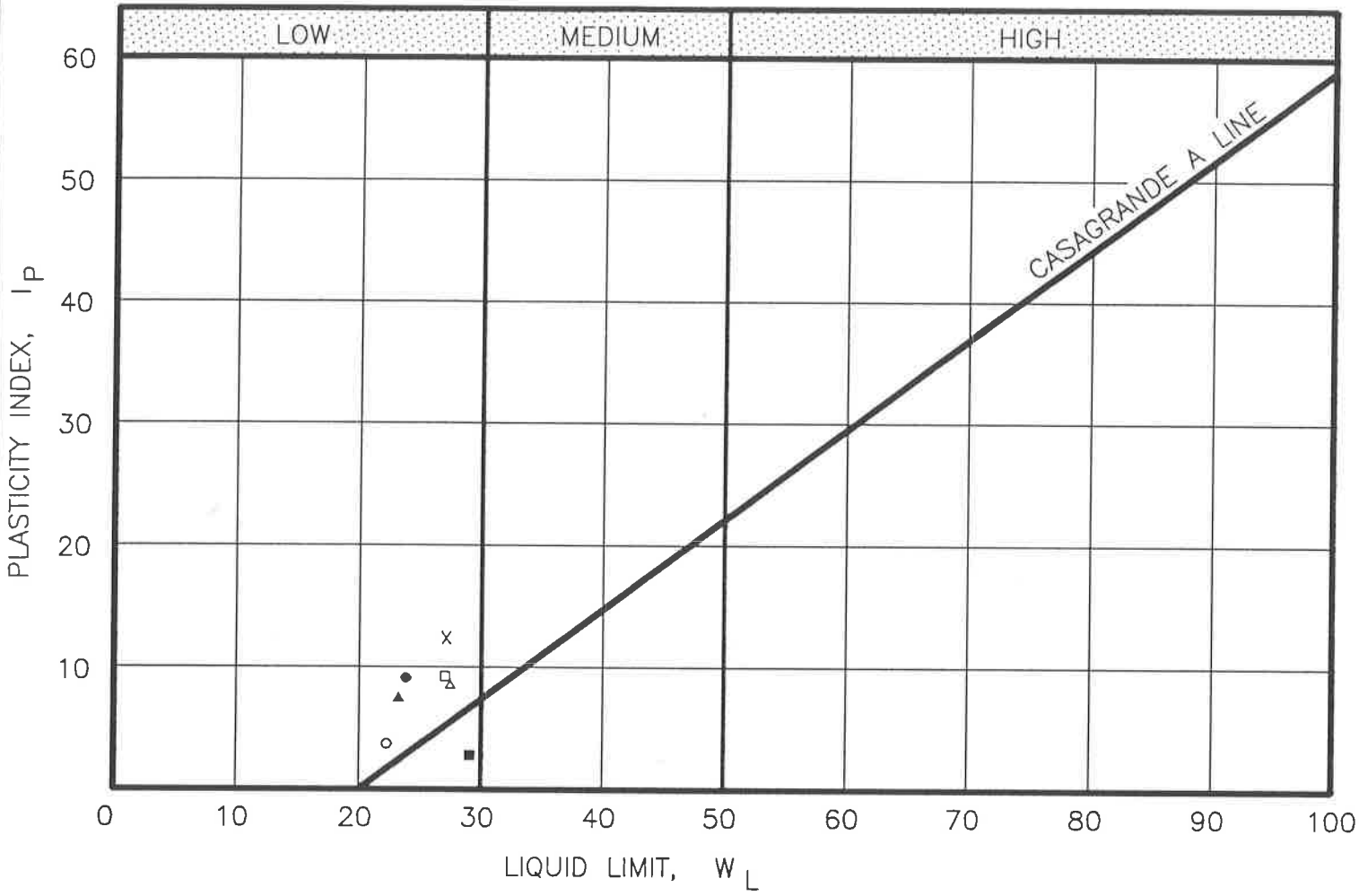
SYMBOL	SAMPLE No.	SAMPLE DEPTH	DESCRIPTION
▲	RD15 2B	1.01m	Sandy clay (CL): TILL
o	RD22 3B	1.68m	Clayey sand with gravel (SC): TILL
x	RD24 3A	1.47m	Silty, clayey sand with gravel (SC–SM): TILL
●	RD29 2	0.91m	Sandy clay (CL): TILL
△	RD32 2	1.52m	Sandy clay (CL): TILL
□	RD32 4	4.57m	Sandy clay (CL): TILL

PLASTICITY CHART BOREHOLE RD–15, RD–22, RD–24, RD–29, & RD–32

RD15RD32.DWG 96/06/17

30000–100404

FIGURE A4.C10



SYMBOL	SAMPLE No.		SAMPLE DEPTH	DESCRIPTION
▲	TP110	4	3.81m	Clayey sand with gravel (SC): TILL
o	TP122	1	1.37m	Sandy silt (ML)
x	TP129	3	4.42m	Sandy clay with gravel (CL): TILL
●	TP136	1	2.13m	Sandy clay (CL): TILL
△	TPRD5	3	1.83m	Sandy clay (CL): TILL
■	TPRD8	3	4.11m	Sandy silt (ML): TILL
□	TPRD10	1	1.68m	Clayey sand with gravel (SC): TILL

PLASTICITY CHART TEST PIT TP-110, TP-122, TP-129, TP-136, TP-RD5, TP-RD8, TP-RD10

TP110_10.DWG 96/06/17

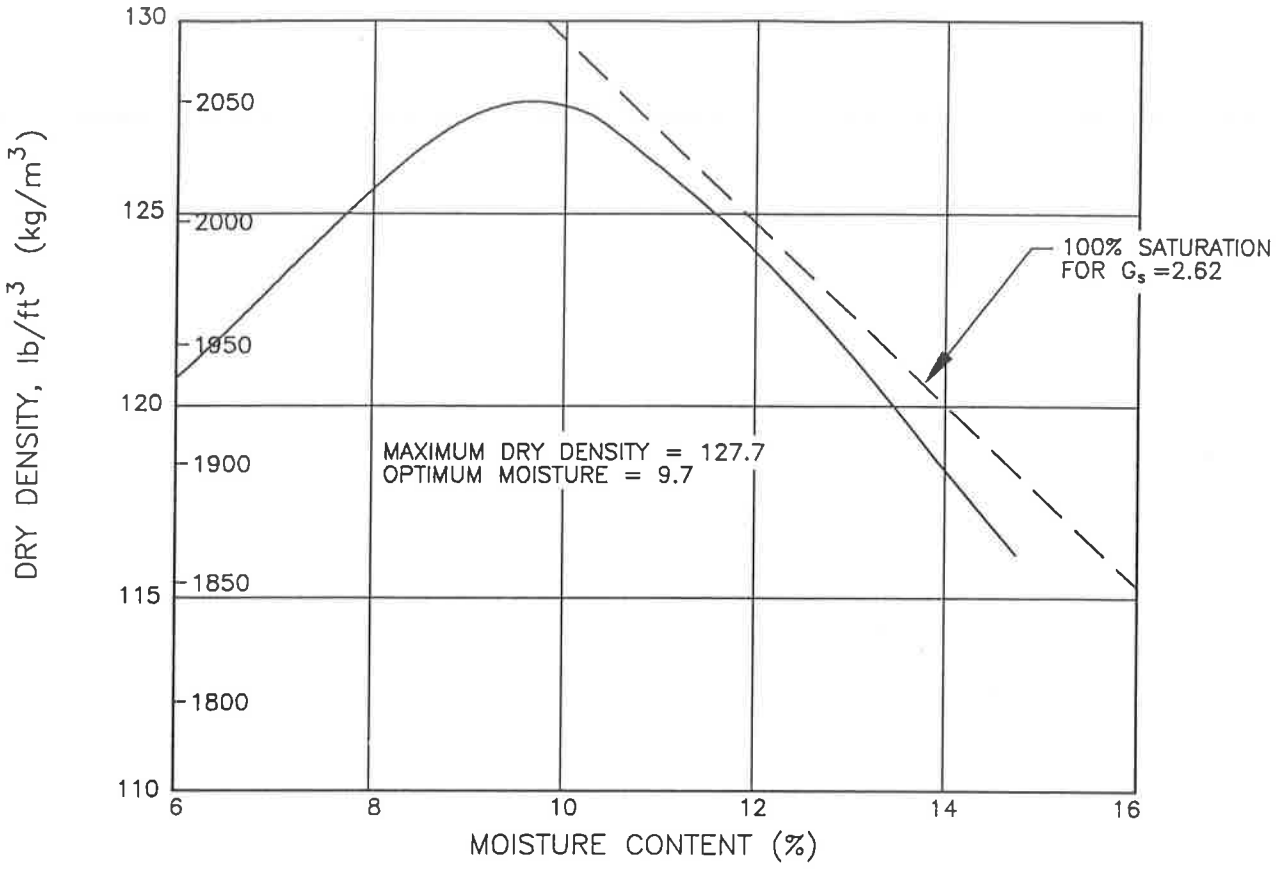
30000-100404

FIGURE A4.C11

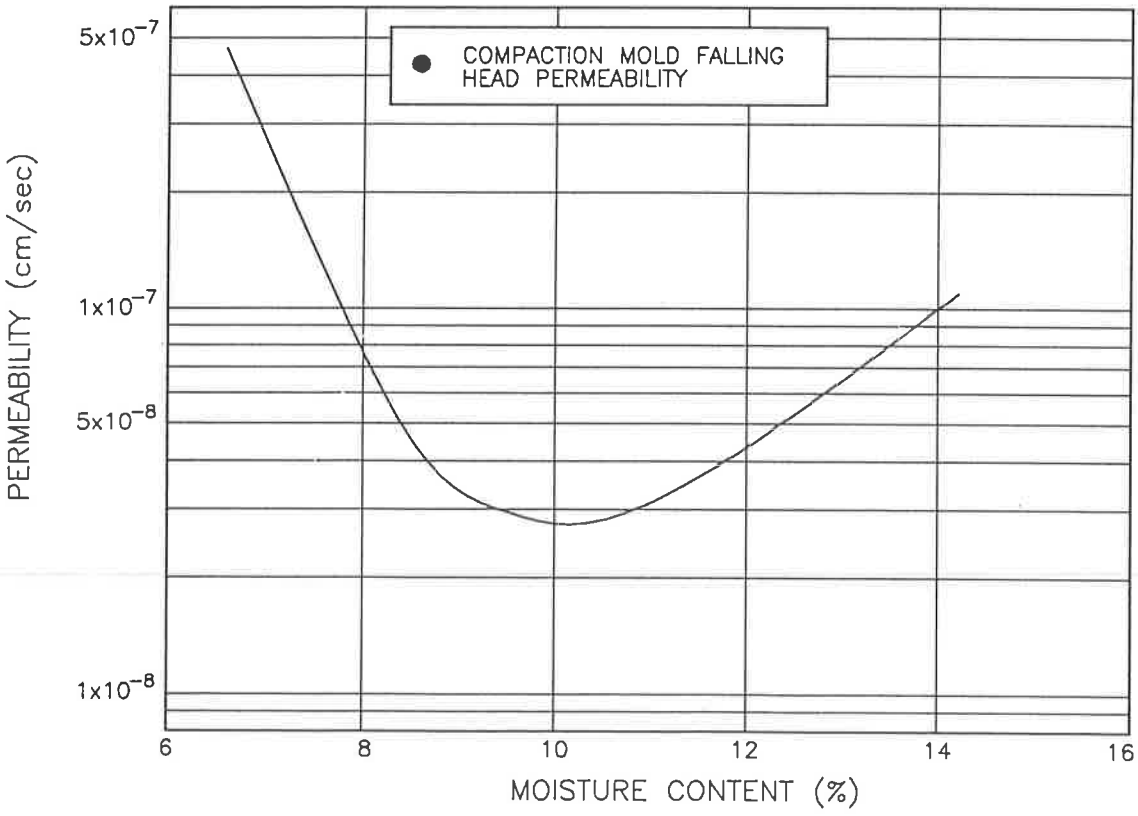
APPENDIX 4d

MOISTURE/DENSITY/PERMEABILITY

RELATIONSHIPS



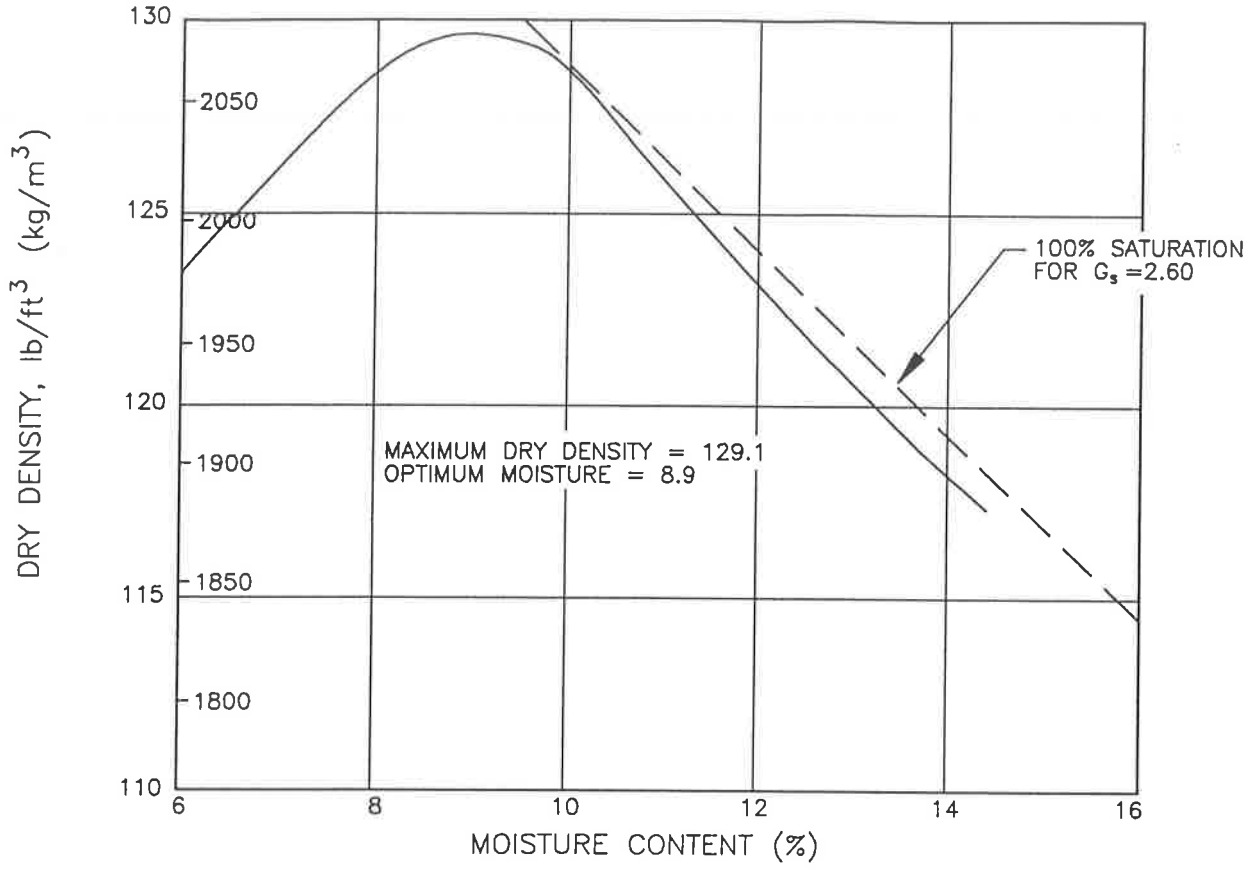
DRY DENSITY VS. MOISTURE CONTENT



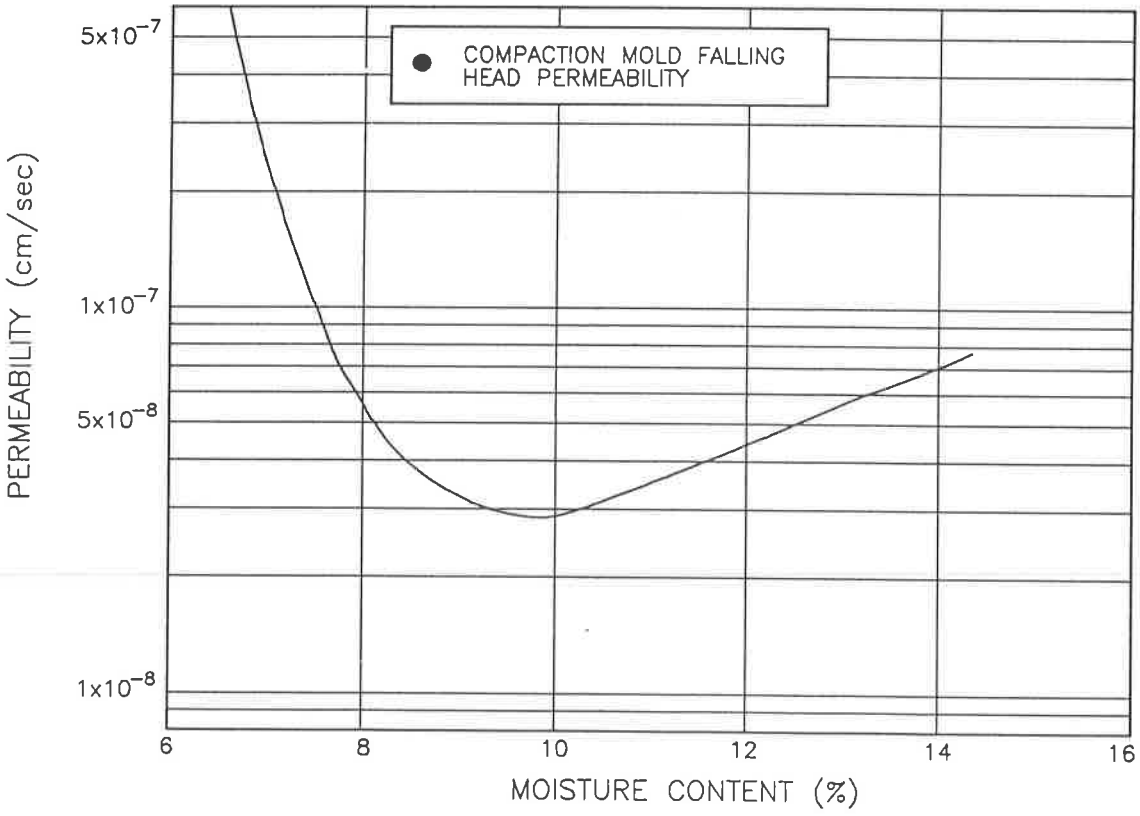
PERMEABILITY VS. MOISTURE CONTENT

TPB1SA1.DWG 9t, /17

PROJECT No. 30000 SAMPLE DESIGNATION TPB1,SA1 FIGURE No. A4.D1



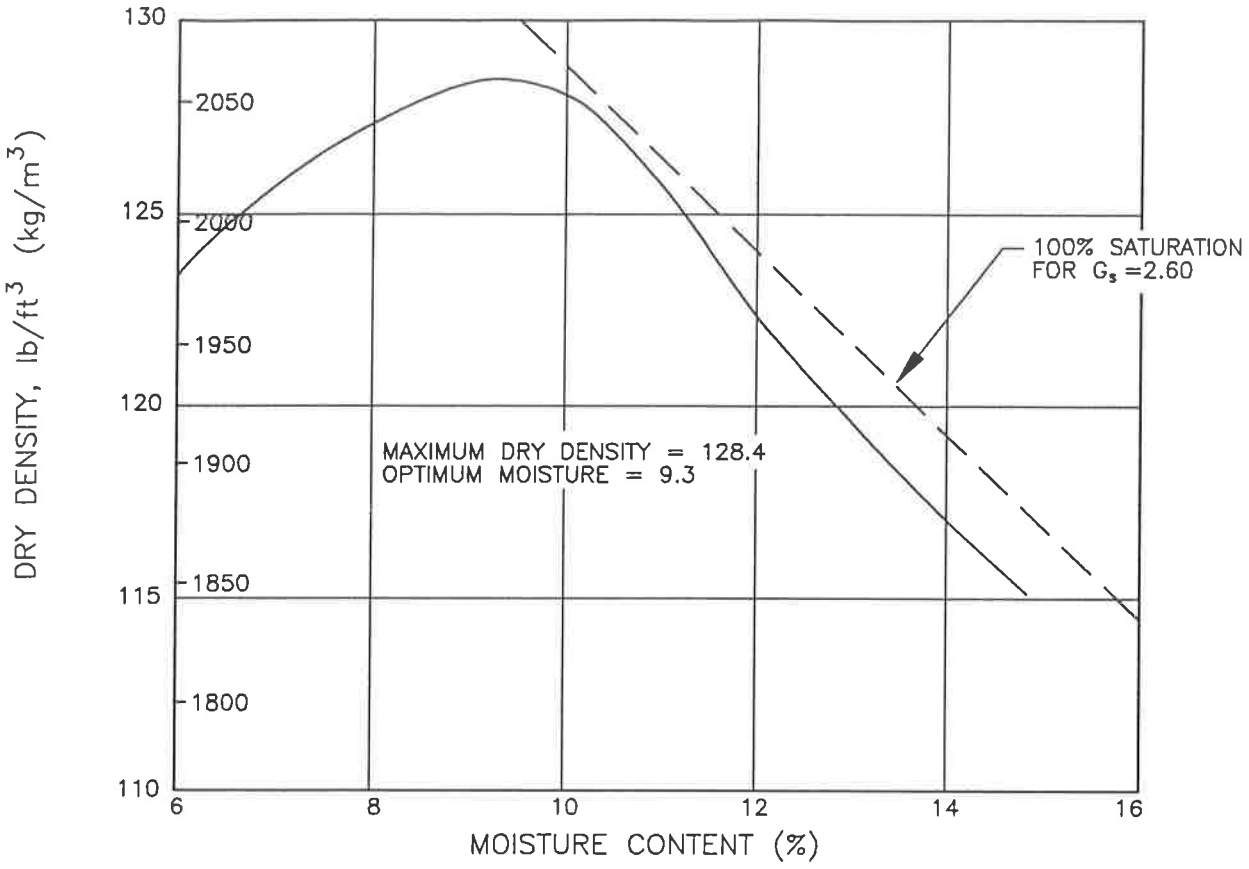
DRY DENSITY VS. MOISTURE CONTENT



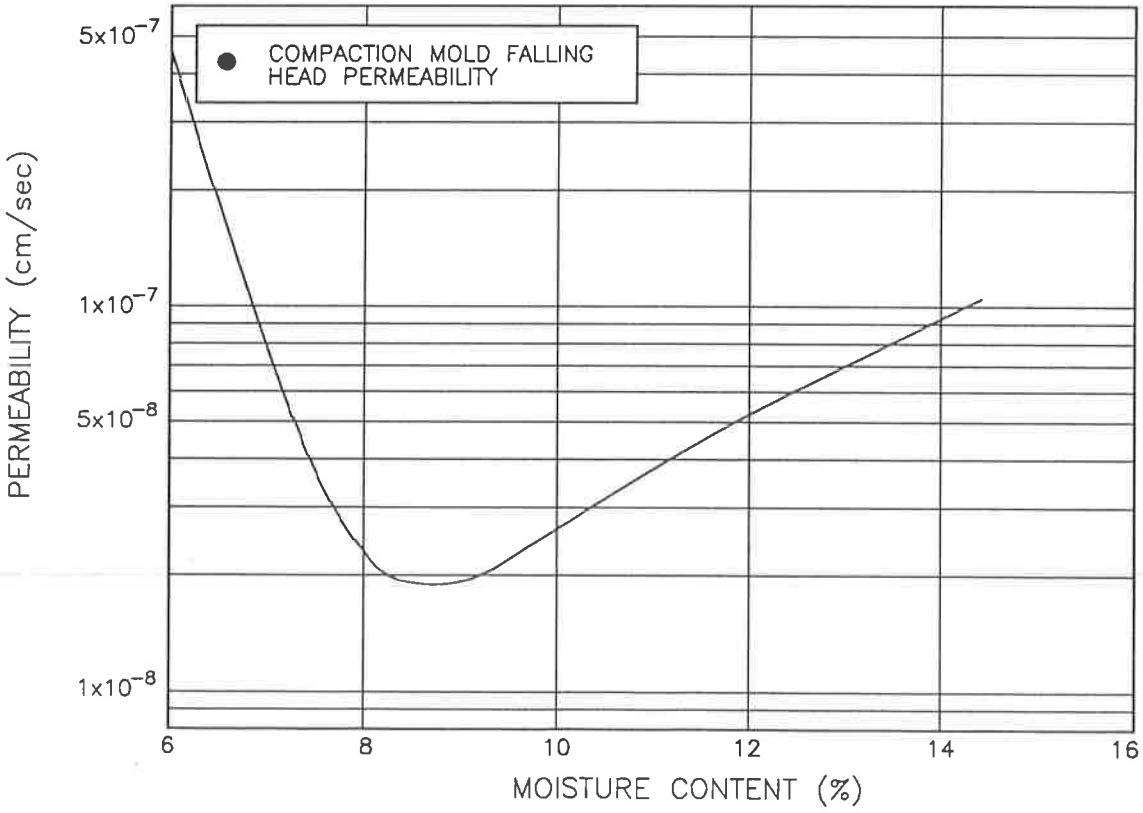
PERMEABILITY VS. MOISTURE CONTENT

TPB1SA2.DWG 5 24

PROJECT No. 30000 SAMPLE DESIGNATION TPB1,SA2 FIGURE No. A4.D2



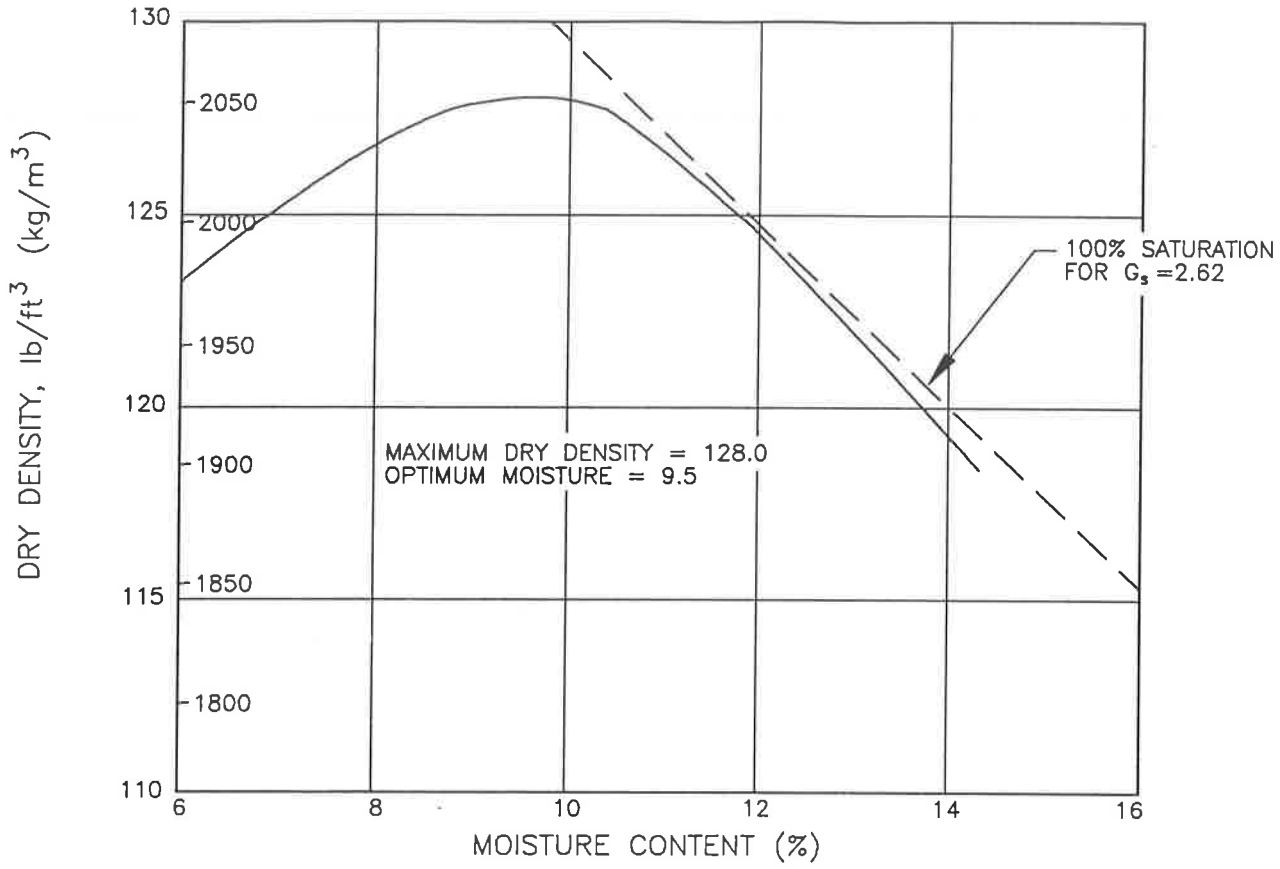
DRY DENSITY VS. MOISTURE CONTENT



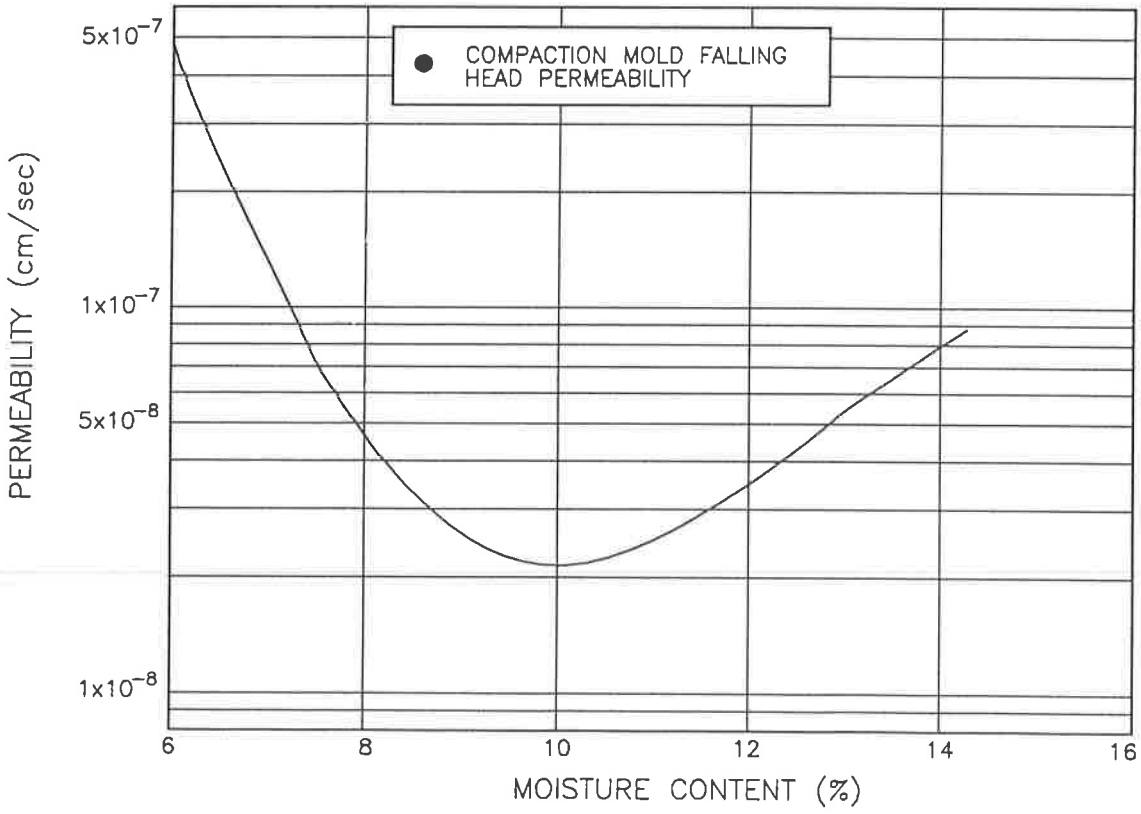
PERMEABILITY VS. MOISTURE CONTENT

TPB1SA3.DWG 9. , 24

PROJECT No. 30000 SAMPLE DESIGNATION TPB1,SA3 FIGURE No. A4.D3



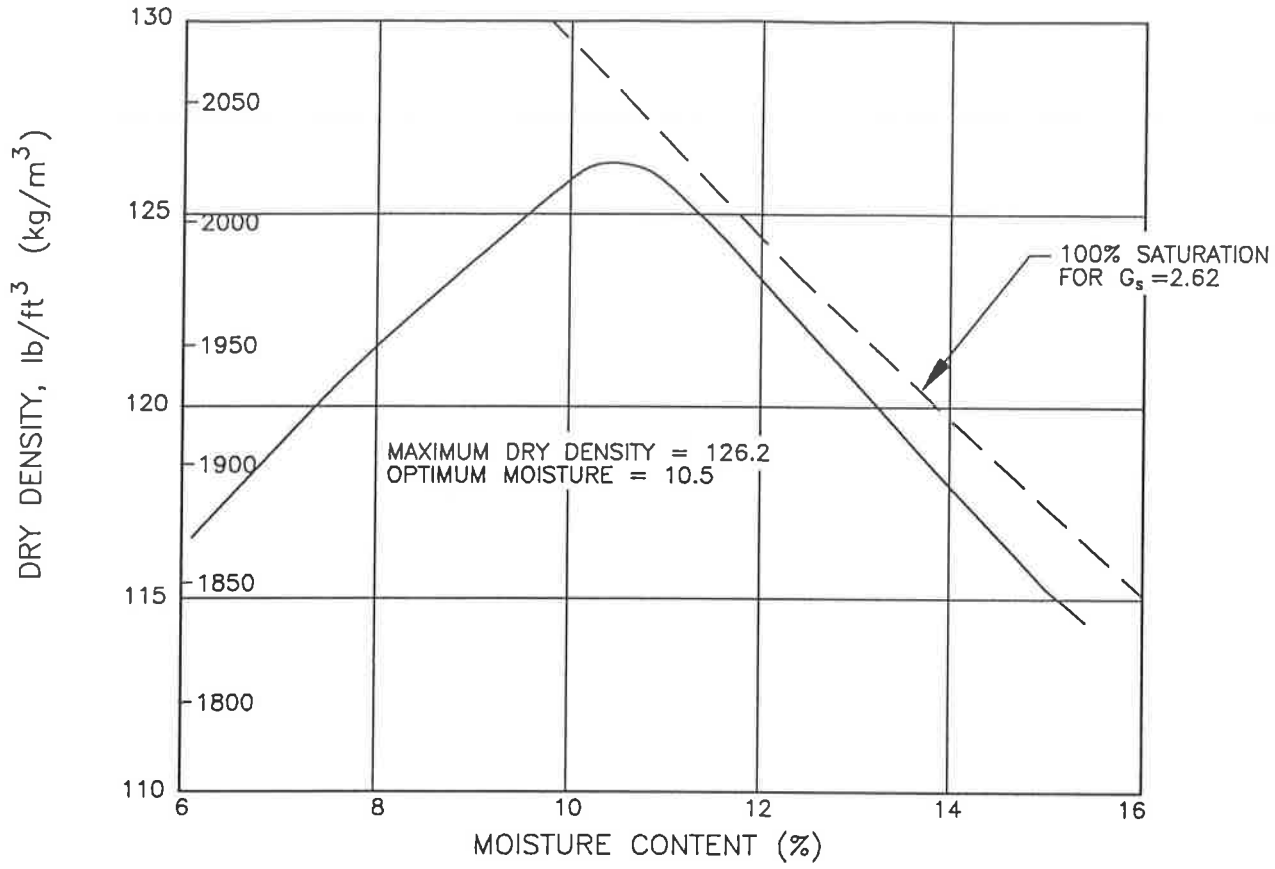
DRY DENSITY VS. MOISTURE CONTENT



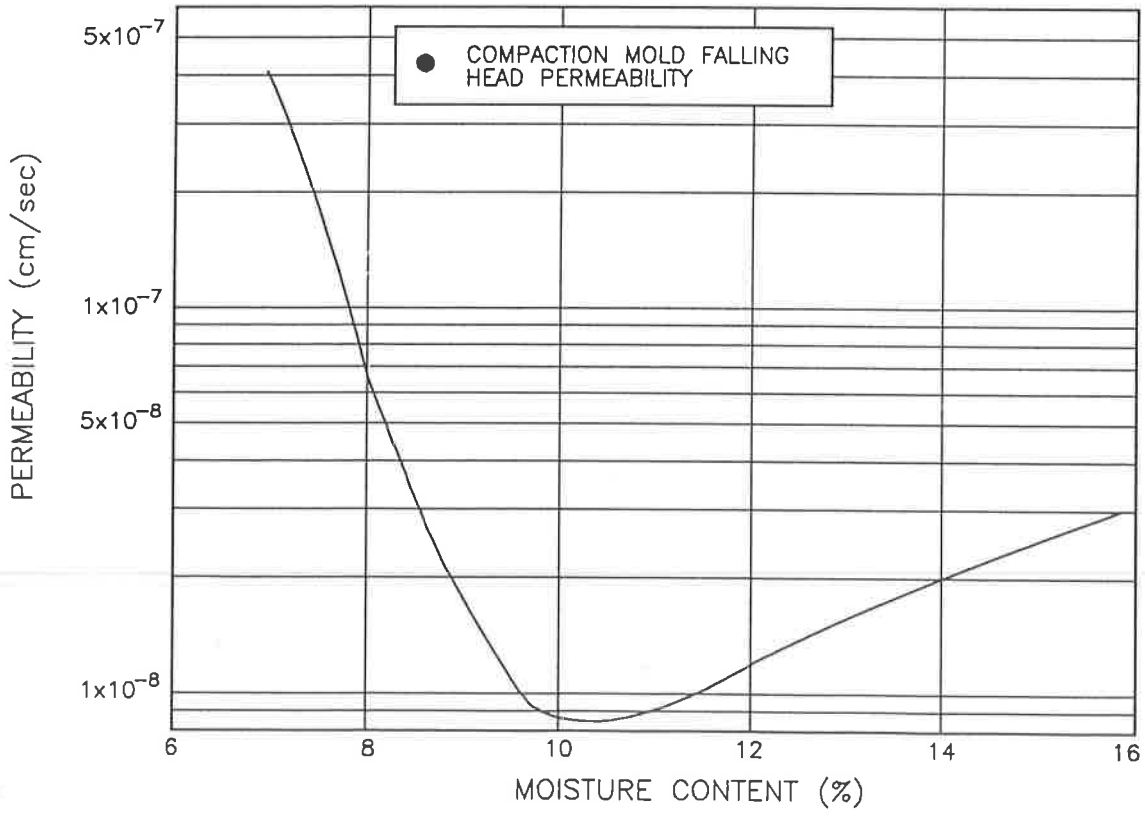
PERMEABILITY VS. MOISTURE CONTENT

TPB2SA1.DWG 9L 24

PROJECT No. 30000 SAMPLE DESIGNATION TPB2,SA1 FIGURE No. A4.D4



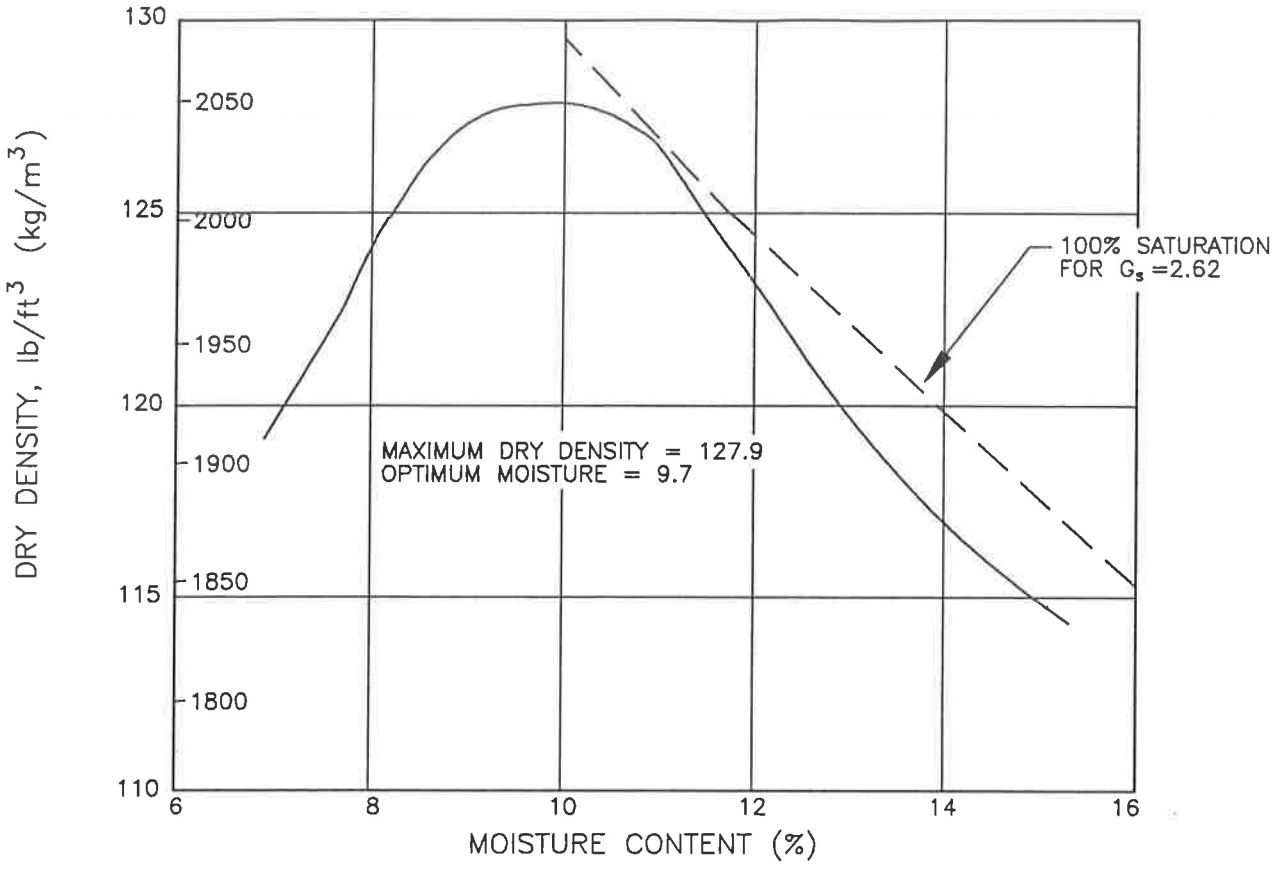
DRY DENSITY VS. MOISTURE CONTENT



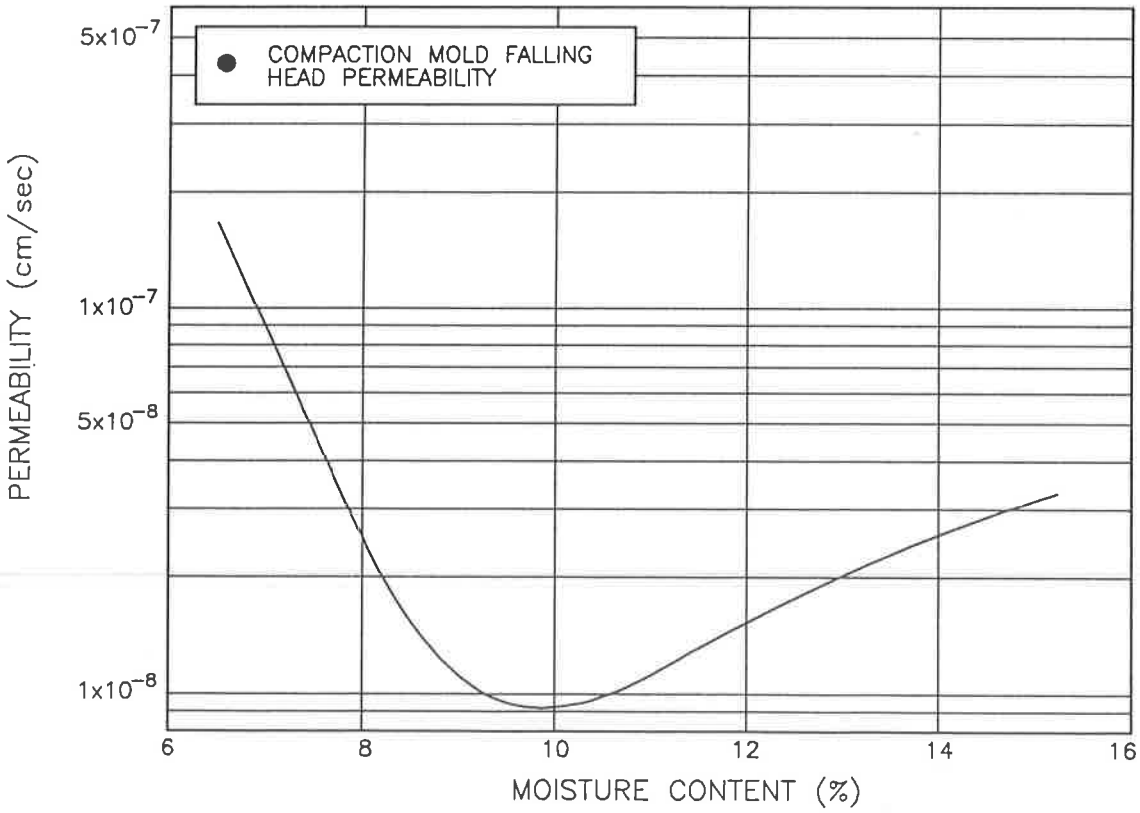
PERMEABILITY VS. MOISTURE CONTENT

TPB2SA2.DWG 9... 24

PROJECT No. 30000 SAMPLE DESIGNATION TPB2,SA2 FIGURE No. A4.D5



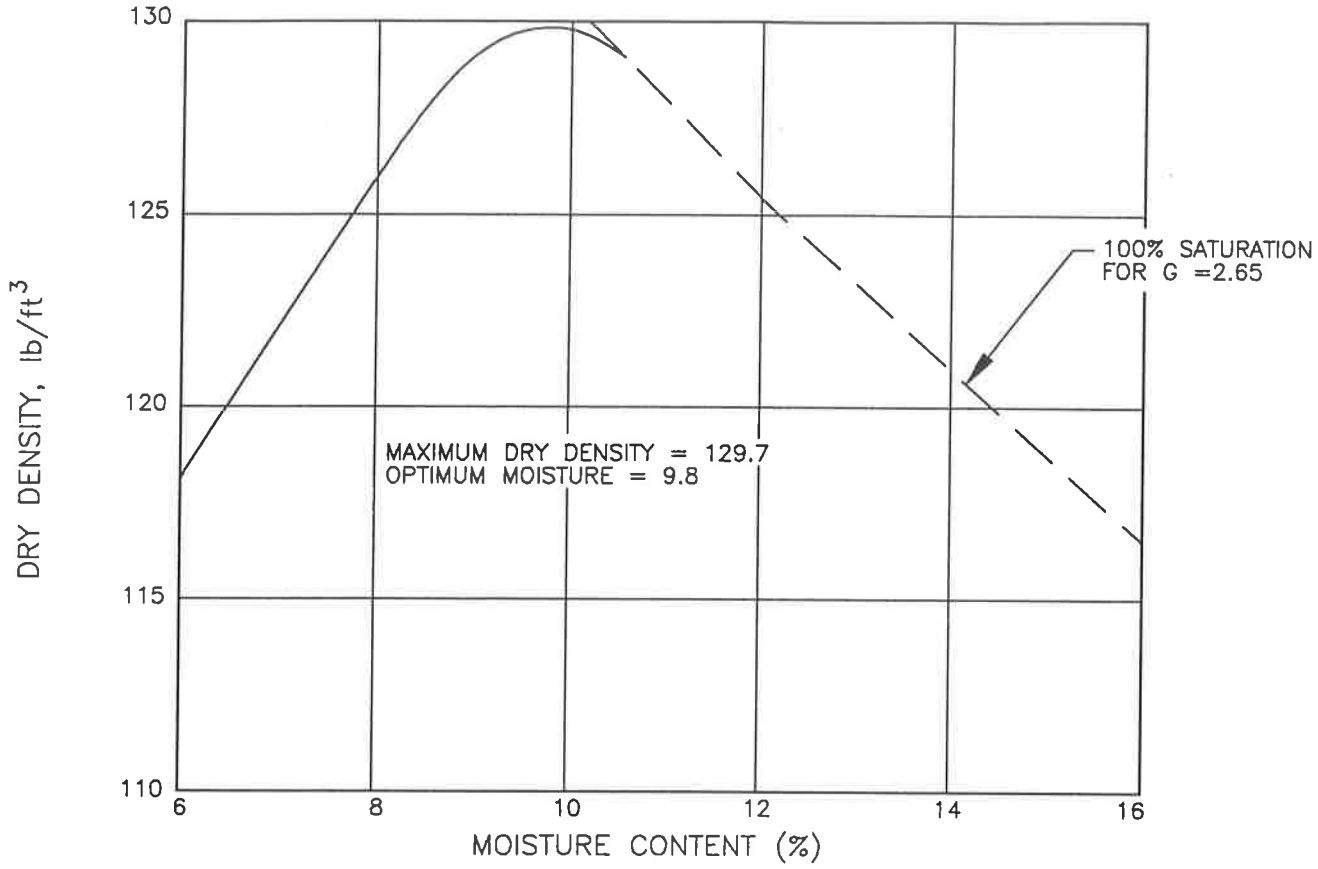
DRY DENSITY VS. MOISTURE CONTENT



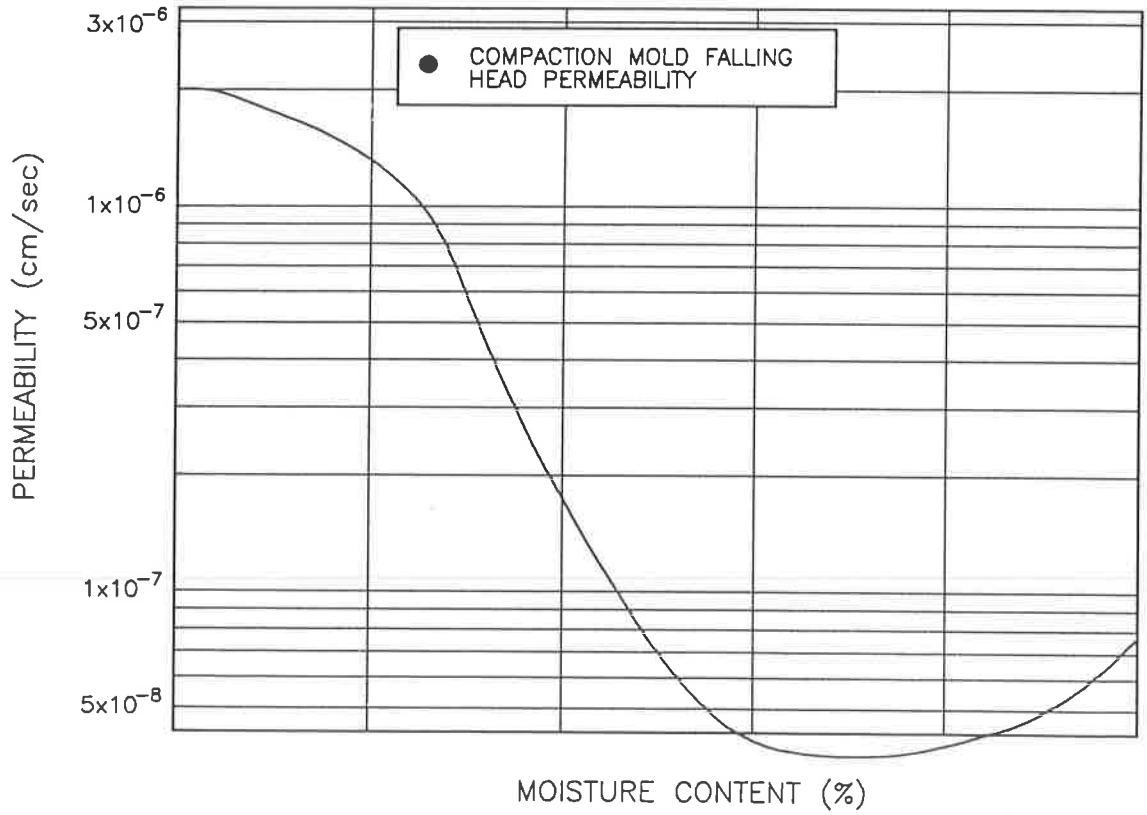
PERMEABILITY VS. MOISTURE CONTENT

TPB2SA3.DWG 9/, 24

PROJECT No. 30000 SAMPLE DESIGNATION TPB2,SA3 FIGURE No. A4.D6



DRY DENSITY VS. MOISTURE CONTENT



PERMEABILITY VS. MOISTURE CONTENT

TP110SA4.DWG J/24

PROJECT No. 30000 SAMPLE DESIGNATION TP110,SA4 FIGURE No. A4.D7

APPENDIX 7

DATABASE

APPENDIX 7

ENVIRONMENTAL DATABASE

1.0 Introduction

The geotechnical and hydrogeological investigation of Site A required extensive collection and analysis of data. For this investigation, computer models requiring database file inputs were used to generate plots. If this site is to be chosen as the future landfill location, the collected data will serve as a baseline for subsequent study and monitoring. In order to facilitate future data organization and retrieval, a relational database model was created.

2.0 Database Components

The database stores information concerning the following parameters of the site:

- General information, including monitoring well, test pit, borehole, and auger probe locations, elevations, and construction details
- Geological information, including vertically differentiated lithology descriptions from intrusive investigations
- Chemistry information, including inorganic and organic analyses of groundwater, surface water, sediment, and soil
- Water level information, including measurements of groundwater levels relative to grade
- Hydraulic conductivity information

Information is separated in different database files which can be linked by the common field of their 'Hole ID', containing a location descriptor. With this organization, unnecessary redundancies are eliminated, while information from any of the files can still be retrieved simultaneously.

Table 1 lists the database files contained in the Environmental Database. A summary of fields for each database file and units, where applicable, are included with the printout of each file.

Table 1 Environmental Database Files

CATEGORY	*FILENAME*	*CONTENTS*
General	general.dbf	General information (coordinates, elevations, etc.)
Geology	geology.dbf	Lithology information
Water Levels	wlevel.dbf	Groundwater level measurements
Hydraulic Conductivity	k.dbf	Hydraulic Conductivity (K) - Packer and Slug tests
Chemistry	gwi.dbf	Groundwater inorganic chemistry (incl. Radon)
	swi.dbf	Surface water inorganic chemistry (incl. Radon)
	ssi.dbf	Ssediment and soil inorganic chemistry
	gwmust.dbf	Groundwater petroleum hydrocarbon Chemistry (MUST)
	swmust.dbf	Surface water petroleum hydrocarbon chemistry (MUST)
	ssmust.dbf	Sediment petroleum hydrocarbon chemistry (MUST)
	gw608.dbf	Groundwater EPA 608 Pesticide/PCB chemistry
	sw608.dbf	Surface water EPA 608 Pesticide/PCB chemistry
	ss608.dbf	Sediment EPA 608 Pesticide/PCB chemistry
	gw624.dbf	Groundwater EPA 624 chemistry
	sw624.dbf	Surface water EPA 624 chemistry
	ss624.dbf	Sediment EPA 624 chemistry
	gw625.dbf	Groundwater EPA 625 chemistry
	sw625.dbf	Surface water EPA 625 chemistry
	ss625.dbf	Sediment EPA 625 chemistry

General.dbf Fields

Database Field	Description
hole_id	Hole ID
grid_n	Grid Northing
grid_e	Grid Easting
ground elev.	Ground Elevation, m above sea level
max_depth	Maximum Depth, m below grade
hole_path	Hole Path
type	Type
mw_type	MW Type
date	Drill Date
screened unit	Screened Unit
bh_size_mm	Borehole size, mm
screen_size_mm	Screen Size,mm
toc_elev	Top of Casing Elevation, m above sea level
stickup	Stickup
bedrock	Bedrock
rqd	RQD
utm_n	UTM Northing
utm_e	UTM Easting

Notes:

MW Types:

A	Till
B	Bedrock
C	Bedrock

Screened Unit:

B	Bedrock
T	Till

General.dbf

Hole ID	Grid Northing	Grid Easting	Ground Elevation	Depth	Hole Path	Type	MW Type	Drill Date	Screened Unit	Borehole size	Screen Size	TOC elevation	Stickup	Bedrock	RQD	UTM Northing	UTM Easting
MW-95-1A	5327.03	1265.06	62.17	15.30	LINEAR	MW	B	1995	B	100	51	62.70	0.53	Y	67	4,942,053.11	5,559,969.55
MW-95-1B	5325.53	1261.06	62.43	4.30	LINEAR	MW	A	1995	T	155	51	63.01	0.58	N	NA	4,942,048.90	5,559,968.81
MW-95-2A	4621.02	1345.00	108.25	12.60	LINEAR	MW	B	1995	B	100	51	108.99	0.74	Y	40	4,941,763.66	5,560,618.43
MW-95-2B	4621.02	1345.00	108.13	6.40	LINEAR	MW	A	1995	T	155	51	108.85	0.72	N	NA	4,941,763.66	5,560,618.43
MW-95-3A	4772.99	1745.01	101.20	15.70	LINEAR	MW	B	1995	B	100	51	101.65	0.45	Y	0	4,942,185.45	5,560,690.52
MW-95-3B	4772.99	1745.01	-	9.00	LINEAR	MW	A	1995	T	155	51	NA	NA	N	NA	4,942,185.45	5,560,690.52
MW-95-4A	5143.40	2199.45	92.05	13.80	LINEAR	MW	B	1995	B	100	51	92.72	0.67	Y	55	4,942,765.00	5,560,602.00
MW-95-4B	5143.40	2199.45	92.12	3.10	LINEAR	MW	A	1995	T	155	51	92.79	0.67	N	NA	4,942,765.00	5,560,602.00
AP-1	5226.45	2109.91	81.49	6.70	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,942,730.00	5,560,485.00
AP-2	5093.96	2099.75	93.28	1.22	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,942,654.00	5,560,594.00
AP-3	5011.74	1960.16	94.33	4.25	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,942,492.00	5,560,594.00
AP-4	5117.65	1948.84	86.79	2.11	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,942,536.00	5,560,497.00
AP-5	5146.59	1848.23	84.44	1.22	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,942,464.00	5,560,421.00
AP-6	4884.33	1893.62	97.68	1.22	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,942,370.00	5,560,670.00
AP-7	5422.82	1263.06	74.25	13.20	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,942,100.00	5,559,886.00
AP-8	5264.11	1249.77	64.10	3.90	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,942,008.00	5,560,016.00
AP-9	4867.72	1254.63	88.54	1.75	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,941,811.00	5,560,360.00
AP-10	4775.52	1373.93	99.47	7.48	LINEAR	AP	A	1995	NA	155	19	NA	NA	Y	NA	4,941,867.00	5,560,500.00
BH1	5395.74	1260.44	70.50	26.22	LINEAR	AP	A	1995	NA	NA	NA	NA	NA	Y	NA	4,942,084.00	5,559,908.00
BH2	5485.14	1191.53	72.60	22.40	LINEAR	AP	A	1995	NA	NA	NA	NA	NA	N	NA	4,942,070.00	5,559,796.00
BH3	5475.09	1267.09	77.42	21.25	LINEAR	AP	A	1995	NA	NA	NA	NA	NA	N	NA	4,942,130.00	5,559,843.00
BH4	5454.94	1319.57	71.14	23.15	LINEAR	AP	A	1995	NA	NA	NA	NA	NA	N	NA	4,942,165.00	5,559,887.00
BH5	5547.41	1295.28	72.95	16.70	LINEAR	AP	A	1995	NA	NA	NA	NA	NA	N	NA	4,942,190.63	5,559,795.23
BH-RD-1A	4863.99	1679.02	100.51	13.05	LINEAR	MW	A	1996	B	100	51	100.59	0.08	Y	22	4,942,174.78	5,560,578.61
BH-RD-1B	4863.99	1679.02	100.51	4.20	LINEAR	MW	B	1996	T	100	51	100.63	0.12	N	NA	4,942,174.78	5,560,578.61
BH-RD-2A	4930.99	1677.03	97.18	8.09	LINEAR	MW	A	1996	B	100	51	97.34	0.16	Y	48	4,942,207.06	5,560,519.87
BH-RD-2B	4930.99	1677.03	97.18	4.47	LINEAR	MW	B	1996	T	100	51	97.31	0.13	N	NA	4,942,207.06	5,560,519.87
BH-RD-3	5002.99	1675.03	90.07	3.83	LINEAR	MW	B	1996	B	100	51	90.21	0.14	Y	37	4,942,241.89	5,560,456.82
BH-RD-4	5060.04	1671.74	87.50	9.39	LINEAR	MW	B	1996	B	100	51	87.50	0.00	Y	37	4,942,268.00	5,560,406.00
BH-RD-5	5141.99	1686.04	83.24	7.15	LINEAR	MW	B	1996	B	100	51	83.45	0.21	Y	78	4,942,321.92	5,560,342.65
BH-RD-6	5208.49	1669.05	69.43	5.89	LINEAR	MW	B	1996	B	100	51	69.86	0.43	Y	61	4,942,341.03	5,560,276.72
BH-RD-7	4861.98	1818.02	98.19	7.60	LINEAR	MW	B	1996	B	100	51	98.31	0.12	Y	33	4,942,293.52	5,560,650.89
BH-RD-8	4931.48	1813.03	97.83	7.90	LINEAR	MW	B	1996	B	100	51	97.94	0.11	Y	16	4,942,324.49	5,560,588.48
BH-RD-9A	5002.98	1810.03	95.96	10.59	LINEAR	MW	A	1996	B	100	51	96.12	0.16	Y	54	4,942,358.20	5,560,525.35
BH-RD-9B	5002.98	1810.03	95.96	2.50	LINEAR	MW	B	1996	T	100	51	96.09	0.13	N	NA	4,942,358.20	5,560,525.35
BH-RD-10A	5062.98	1815.54	91.57	5.81	LINEAR	MW	A	1996	B	100	51	91.73	0.16	Y	4	4,942,393.40	5,560,476.45
BH-RD-10B	5062.98	1815.54	91.57	1.97	LINEAR	MW	B	1996	T	100	51	91.74	0.17	N	NA	4,942,393.40	5,560,476.45
BH-RD-11	5139.98	1817.54	83.21	7.31	LINEAR	MW	B	1996	B	100	51	83.35	0.14	Y	15	4,942,434.21	5,560,411.12
BH-RD-12	5199.98	1815.55	78.90	5.81	LINEAR	MW	B	1996	B	100	51	79.07	0.17	Y	53	4,942,462.94	5,560,358.41
BH-RD-13A	5000.97	1883.03	95.16	5.79	LINEAR	MW	A	1996	B	100	51	95.47	0.31	Y	NA	4,942,420.08	5,560,564.13
BH-RD-13B	5000.97	1883.03	95.16	2.50	LINEAR	MW	B	1996	T	100	51	95.35	0.19	N	NA	4,942,420.08	5,560,564.13
BH-RD-14A	4758.01	1503.51	103.23	13.72	LINEAR	MW	A	Apr 12/96	B	75	38	103.89	0.66	Y	31	4,941,969.76	5,560,580.85
BH-RD-14B	4758.01	1503.51	103.23	5.96	LINEAR	MW	B	Apr 12/96	T	155	38	103.23	0.00	N	NA	4,941,969.76	5,560,580.85
BH-RD-15A	4878.01	1516.02	95.54	6.40	LINEAR	MW	A	Apr 12/96	B	75	38	95.84	0.30	Y	62	4,942,041.44	5,560,483.81
BH-RD-15B	4878.01	1516.02	95.54	2.69	LINEAR	MW	B	Apr 12/96	T	155	38	95.87	0.33	N	NA	4,942,041.44	5,560,483.81
BH-RD-16	5002.00	1524.53	86.51	4.42	LINEAR	MW	B	Apr 16/96	B	48	25	86.64	0.13	Y	NA	4,942,111.71	5,560,381.29
BH-RD-17	5120.01	1520.04	78.17	4.42	LINEAR	MW	B	Apr 16/96	B	48	25	78.37	0.20	Y	45	4,942,167.73	5,560,277.34
BH-RD-18	5249.01	1511.05	67.33	3.71	LINEAR	MW	B	Apr 16/96	B	48	25	67.72	0.39	Y	34	4,942,225.46	5,560,161.62
BH-RD-19	4884.52	1360.02	88.21	3.89	LINEAR	MW	B	Apr 19/96	B	48	25	88.60	0.39	Y	63	4,941,910.34	5,560,399.02
BH-RD-20	5008.52	1387.53	82.64	6.27	LINEAR	MW	B	Apr 19/96	B	48	25	83.07	0.43	Y	79	4,941,996.97	5,560,306.14
BH-RD-21	5124.02	1370.04	75.64	4.01	LINEAR	MW	B	Apr 18/96	B	48	25	76.20	0.56	Y	27	4,942,040.53	5,560,197.75
BH-RD-22	5218.02	1378.25	64.41	5.56	LINEAR	MW	B	Apr 18/96	B	48	25	64.85	0.44	Y	15	4,942,095.31	5,560,120.92

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Hole ID	Grid Northing	Grid Easting	Ground Elevation	Depth	Hole Path	Type	MW Type	Drill Date	Screened Unit	Borehole size	Screen Size	TOC elevation	Stickup	Bedrock	RQD	UTM Northing	UTM Easting
BH-RD-23	4814.24	1105.51	86.30	5.26	LINEAR	MW	B	Apr 20/96	B	48	25	86.67	0.37	Y	37	4,941,655.38	5,560,330.40
BH-RD-24	4896.84	1120.72	83.97	5.11	LINEAR	MW	B	Apr 22/96	B	48	25	84.33	0.36	Y	55	4,941,710.40	5,560,266.95
BH-RD-25	4999.04	1121.83	81.46	5.33	LINEAR	MW	B	Apr 23/96	B	48	25	81.70	0.24	Y	24	4,941,763.23	5,560,179.46
BH-RD-26	5125.04	1118.34	77.30	4.04	LINEAR	MW	B	Apr 23/96	B	48	25	77.73	0.43	Y	77	4,941,824.17	5,560,069.12
BH-RD-27	5286.04	1116.55	65.70	5.18	LINEAR	MW	B	Apr 22/96	B	48	25	66.30	0.60	Y	31	4,941,904.35	5,559,929.49
BH-RD-28	4879.05	972.52	83.70	5.51	LINEAR	MW	B	Apr 25/96	B	48	25	83.92	0.22	Y	27	4,941,573.68	5,560,207.06
BH-RD-29	4997.55	980.03	83.01	5.28	LINEAR	MW	B	Apr 25/96	B	48	25	83.46	0.45	Y	35	4,941,640.29	5,560,108.77
BH-RD-30	5127.65	972.34	72.97	3.81	LINEAR	MW	B	Apr 24/96	B	48	25	73.37	0.40	Y	40	4,941,699.70	5,559,992.77
BH-RD-31	5256.05	972.65	61.23	9.04	LINEAR	MW	B	Apr 24/96	B	48	25	61.67	0.44	Y	69	4,941,765.14	5,559,882.29
MW-1B	5284.47	1988.56	76.30	7.31	LINEAR	MW	B	May 30/96	B	100	51	76.83	0.53	Y	90	4,942,654.89	5,560,373.42
MW-2B	5296.98	1813.06	71.57	9.14	LINEAR	MW	B	Apr 23/96	B	100	51	72.18	0.61	Y	85	4,942,510.02	5,560,273.57
MW-3A	5399.99	1714.07	62.92	3.20	LINEAR	MW	A	Jun 01/96	T	100	51	63.57	0.65	N	NA	4,942,477.01	5,560,134.57
MW-3B	5399.99	1714.07	62.98	8.86	LINEAR	MW	B	Feb 28/96	B	100	51	63.63	0.65	Y	79	4,942,477.01	5,560,134.57
MW-3C	5399.99	1714.07	62.94	15.55	LINEAR	MW	C	Apr 22/96	B	100	51	63.46	0.52	Y	55	4,942,477.01	5,560,134.57
MW-4A	5298.01	1508.06	63.90	4.57	LINEAR	MW	A	Jun 2/96	T	100	51	64.32	0.42	N	NA	4,942,247.75	5,560,117.88
MW-4B	5299.01	1515.06	63.83	12.20	LINEAR	MW	B	Apr 25/96	B	100	51	64.14	0.31	Y	64	4,942,254.29	5,560,120.57
MW-5A	5284.02	1369.05	65.15	2.74	LINEAR	MW	A	Jun 4/96	T	100	51	65.80	0.65	N	NA	4,942,120.88	5,560,059.39
MW-5B	5287.02	1367.56	65.20	8.08	LINEAR	MW	B	Apr 27/96	B	100	51	65.93	0.73	Y	20	4,942,121.11	5,560,056.04
MW-5C	5287.02	1369.05	65.20	15.49	LINEAR	MW	C	Jun 3/96	B	100	51	65.77	0.57	Y	45	4,942,122.41	5,560,056.80
MW-6A	5322.04	1170.06	64.00	7.32	LINEAR	MW	A	Jun 5/96	T	100	51	64.56	0.56	N	NA	4,941,968.72	5,559,925.63
MW-6B	5320.04	1168.56	63.83	12.65	LINEAR	MW	B	Apr 28/96	B	100	51	64.36	0.53	Y	NA	4,941,966.41	5,559,926.59
MW-7A	5358.05	1041.56	52.69	4.11	LINEAR	MW	A	Jun 5/96	T	100	51	53.48	0.79	N	NA	4,941,876.28	5,559,829.39
MW-7B	5360.05	1043.06	52.79	12.65	LINEAR	MW	B	May 3/96	B	100	51	53.68	0.89	Y	80	4,941,878.58	5,559,828.42
MW-7C	5361.05	1040.56	53.05	21.54	LINEAR	MW	C	Apr 30/96	B	100	51	53.37	0.32	Y	58	4,941,876.94	5,559,826.29
MW-8A	5356.06	861.56	49.66	2.59	LINEAR	MW	A	Jun 5/96	T	100	51	50.18	0.52	Y	NA	4,941,720.18	5,559,739.74
MW-8B	5356.46	863.06	49.70	6.45	LINEAR	MW	B	May 5/96	B	100	51	49.70	0.00	Y	75	4,941,721.67	5,559,740.15
MW-8C	5356.06	860.06	49.63	12.34	LINEAR	MW	C	Jun 6/96	B	100	51	50.19	0.56	Y	89	4,941,718.88	5,559,738.98
MW-9A	5187.66	860.04	64.37	3.05	LINEAR	MW	A	Jun 6/96	T	100	51	64.91	0.54	Y	NA	4,941,633.40	5,559,884.07
MW-9B	5192.16	861.04	64.08	6.86	LINEAR	MW	B	May 7/96	B	100	51	64.58	0.50	Y	54	4,941,636.55	5,559,880.70
MW-10B	5007.36	860.03	77.82	7.16	LINEAR	MW	B	June 7/96	B	100	51	78.34	0.52	Y	51	4,941,541.88	5,560,039.41
MW-10C	5007.36	860.03	77.89	15.54	LINEAR	MW	C	May 15/96	B	100	51	78.36	0.47	Y	35	4,941,541.88	5,560,039.41
MW-11B	4780.06	858.01	94.82	9.60	LINEAR	MW	B	Jun 8/96	B	100	51	95.21	0.39	Y	75	4,941,424.78	5,560,234.23
MW-12B	4721.05	999.01	97.59	8.99	LINEAR	MW	B	Jun 8/96	B	100	51	97.93	0.34	Y	85	4,941,516.31	5,560,356.64
MW-13B	4728.03	1189.01	95.27	6.22	LINEAR	MW	B	May 20/96	B	100	51	95.58	0.31	Y	68	4,941,683.56	5,560,447.06
MW-13C	4728.03	1191.51	95.32	45.03	LINEAR	MW	C	May 19/96	B	100	51	95.81	0.49	Y	82	4,941,685.72	5,560,448.33
MW-14A	4684.33	1494.96	107.42	5.79	LINEAR	MW	A	Jun 9/96	T	100	51	107.79	0.37	N	NA	4,941,925.00	5,560,640.00
MW-14B	4684.33	1494.96	107.42	19.66	LINEAR	MW	B	Jun 11/96	B	100	51	107.70	0.28	Y	42	4,941,925.00	5,560,640.00
MW-15A	4662.99	1693.50	108.58	4.16	LINEAR	MW	A	Feb 26/96	T	155	51	108.88	0.30	N	NA	4,942,085.24	5,560,759.15
MW-15B	4662.99	1693.50	108.51	11.51	LINEAR	MW	B	Feb 26/96	B	100	51	108.97	0.46	Y	80	4,942,085.24	5,560,759.15
MW-15C	4662.99	1693.50	108.57	17.98	LINEAR	MW	C	Apr 20/96	B	100	51	109.05	0.48	Y	NA	4,942,085.24	5,560,759.15
MW-16A	4727.47	1890.01	100.39	4.72	LINEAR	MW	A	May 29/96	T	100	51	100.93	0.54	Y	NA	4,942,287.28	5,560,803.33
MW-16B	4727.47	1892.51	100.40	10.67	LINEAR	MW	B	May 29/96	B	100	51	100.91	0.51	Y	69	4,942,289.43	5,560,804.59
MW-17A	4904.47	1933.53	97.47	3.66	LINEAR	MW	A	May 28/96	B	100	51	98.01	0.54	Y	NA	4,942,414.61	5,560,672.91
MW-17B	4904.47	1933.53	97.45	8.08	LINEAR	MW	B	May 27/96	B	100	51	98.00	0.55	Y	59	4,942,414.61	5,560,672.91
MW-18B	4999.97	1976.03	95.80	9.60	LINEAR	MW	B	May 27/96	B	100	51	96.57	0.77	Y	55	4,942,499.70	5,560,612.20
MW-18C	4999.97	1980.03	96.00	39.01	LINEAR	MW	C	May 22/96	B	100	51	96.59	0.59	Y	77	4,942,503.15	5,560,614.23
MW-19A	5176.96	2028.05	82.10	3.83	LINEAR	MW	A	May 30/96	T	100	51	82.69	0.59	N	NA	4,942,634.35	5,560,486.09
MW-19B	5176.96	2028.05	82.10	9.97	LINEAR	MW	B	May 30/96	B	100	51	82.77	0.67	Y	88	4,942,634.35	5,560,486.09
MW-20A	5284.70	1652.06	67.97	3.83	LINEAR	MW	A	Jun 02/96	T	100	51	68.53	0.56	Y	NA	4,942,365.07	5,560,202.44
MW-20B	5284.70	1652.06	68.05	9.50	LINEAR	MW	B	Jun 02/96	B	100	51	68.54	0.49	Y	79	4,942,365.07	5,560,202.44
MW-21B	5477.99	1750.07	64.02	3.45	LINEAR	MW	B	Jan 29/96	B	100	51	64.84	0.82	Y	30	4,942,547.62	5,560,085.64
MW-22	5464.98	1864.07	62.90	7.00	LINEAR	MW	A	Jun 01/96	T	100	51	63.17	0.27	Y	NA	4,942,639.25	5,560,154.71

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Hole ID	Grid Northing	Grid Easting	Ground Elevation	Depth	Hole Path	Type	MW Type	Drill Date	Screened Unit	Borehole size	Screen Size	TOC elevation	Stickup	Bedrock	RQD	UTM Northing	UTM Easting
MW-23	5383.02	1404.56	62.63	5.18	LINEAR	MW	A	Jun 4/96	T	100	51	63.12	0.49	Y	NA	4,942,201.72	5,559,992.11
TP-101	4872.03	1249.02	88.21	2.64	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,808.36	5,560,353.45
TP-102	5063.53	1234.04	79.31	0.61	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,892.64	5,560,180.84
TP-103	5156.03	1231.04	70.33	1.12	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,937.01	5,560,099.62
TP-104	4856.84	1114.92	84.62	0.76	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,685.10	5,560,298.47
TP-105	5051.44	1128.03	79.30	1.22	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,795.17	5,560,137.46
TP-106	5188.04	1115.05	71.20	1.52	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,853.31	5,560,013.16
TP-107	4939.05	979.02	82.90	5.18	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,941,609.74	5,560,158.66
TP-108	5058.85	975.43	82.36	4.11	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,667.45	5,560,053.62
TP-109	5190.05	958.04	68.18	1.78	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,719.06	5,559,931.75
TP-110	4789.03	1182.01	90.12	3.96	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,708.50	5,560,390.95
TP-111	5166.02	1364.24	69.83	1.52	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,056.85	5,560,158.62
TP-112	5078.02	1389.04	80.18	2.74	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,033.55	5,560,247.03
TP-113	4946.02	1358.53	87.52	0.61	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,940.26	5,560,345.27
TP-114	5169.01	1507.05	73.54	2.43	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,181.41	5,560,228.52
TP-115	5050.01	1528.04	82.03	1.22	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,139.09	5,560,341.71
TP-116	4930.01	1523.53	90.74	0.81	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,074.30	5,560,442.81
TP-117	4827.01	1512.52	98.88	4.72	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,012.54	5,560,525.97
TP-118	5464.98	1896.07	63.24	1.52	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,666.82	5,560,170.95
TP-119	5462.98	1875.07	62.80	4.27	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,647.71	5,560,162.02
TP-120	5469.98	1841.07	63.66	4.57	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,621.97	5,560,138.73
TP-121	5366.97	1900.06	63.70	1.93	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,620.52	5,560,257.42
TP-122	5379.98	1864.06	64.01	4.88	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,596.10	5,560,227.94
TP-123	5396.98	1822.07	63.81	4.88	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,568.54	5,560,191.98
TP-124	5393.99	1783.07	65.51	3.96	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,533.42	5,560,174.76
TP-125	5280.53	1262.05	62.47	2.44	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,026.92	5,560,008.09
TP-126	5268.03	1304.05	62.36	4.11	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,056.76	5,560,040.18
TP-127	5307.02	1349.06	62.20	4.27	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,115.33	5,560,029.42
TP-128	5358.02	1390.06	62.05	4.72	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,176.54	5,560,006.29
TP-129	5393.02	1371.06	62.13	4.88	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,177.94	5,559,966.49
TP-130	5340.02	1323.06	62.85	6.09	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,109.68	5,559,987.79
TP-131	5334.03	1285.06	62.25	5.49	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,073.89	5,559,973.67
TP-132	4690.02	1283.00	105.83	6.40	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,941,745.26	5,560,527.51
TP-133	4682.03	1247.00	105.35	5.79	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,941,710.19	5,560,516.13
TP-134	4758.86	860.71	95.70	0.61	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,416.34	5,560,253.87
TP-135	4658.02	1326.00	106.48	5.94	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,766.07	5,560,576.91
TP-136	4515.02	1358.99	109.79	6.20	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,721.91	5,560,716.87
TP-137	4533.01	1421.99	110.52	1.98	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,785.33	5,560,733.34
TP-138	4577.01	1463.99	110.34	3.05	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,941,843.85	5,560,716.75
TP-81	5404.03	1278.06	71.23	4.57	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,103.39	5,559,909.80
TP-82	5485.03	1290.07	76.27	4.57	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,154.85	5,559,846.11
TP-RD-1	4803.99	1680.02	101.70	4.88	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,145.18	5,560,630.82
TP-RD-2	4897.99	1677.02	98.72	3.51	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,190.31	5,560,548.30
TP-RD-3	5106.99	1700.04	85.52	0.79	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,316.22	5,560,379.91
TP-RD-4	4999.99	1741.03	95.40	3.51	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,297.23	5,560,492.91
TP-RD-5	4887.99	1744.02	98.11	5.18	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,242.96	5,560,590.93
TP-RD-6	5249.99	1662.05	68.71	1.37	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,356.07	5,560,237.41
TP-RD-7	5270.00	1662.06	68.34	1.52	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,366.22	5,560,220.18
TP-RD-8	5068.98	1878.04	91.67	4.42	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,450.29	5,560,503.00
TP-RD-9	5164.97	1906.05	82.56	2.90	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,523.15	5,560,434.50
TP-RD-10	4815.98	1813.02	100.10	5.18	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	N	NA	4,942,265.86	5,560,687.99
TP-RD-18	5262.01	1511.55	66.59	4.26	LINEAR	TP	A	1996	NA	NA	NA	NA	NA	Y	NA	4,942,232.49	5,560,150.68

Geology.dbf Fields

Field	Description
hole_id	Hole ID
depth_from	Depth in m below grade at which interval begins
depth_to	Depth in m below grade at which interval ends
unit	Lithology Unit in code
description	Description
rqd	RQD
fractm	Fractures/m

Notes:

Lithology Units:

RM	Rootmat and Topsoil
BG	Boulders, sand, and gravel
SM	Silty sand with gravel till
CL	Sandy clay till
R	Bedrock
ML	Sandy silt till
GM	Silty gravel with sand
SC	Clayey sand till
SG	Sand and gravel
P	Peat
SD	Sand, some gravel and boulders
RMB	Rootmat and boulders

Geology.dbf

Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
MW-95-1A	0.00	0.40	RM	Rootmat	NA	NA
MW-95-1A	0.40	1.75	BG	Boulder layer with silty sand	NA	NA
MW-95-1A	1.75	9.70	SM	Brown to reddish brown silty sand and gravel, trace clay: till	NA	NA
MW-95-1A	9.70	11.25	CL	Dark reddish brown sandy clay and gravel: till	NA	NA
MW-95-1A	11.25	12.50	R	Granite bedrock	64	NA
MW-95-1A	12.50	13.00	R	Granite bedrock	45	NA
MW-95-1A	13.00	13.80	R	Granite bedrock	93	NA
MW-95-1A	13.80	14.50	R	Granite bedrock	93	NA
MW-95-1A	14.50	15.30	R	Granite bedrock	39	NA
MW-95-2A	0.00	0.25	RM	Black silt and sand, roots: Topsoil	NA	NA
MW-95-2A	0.25	8.15	CLML	Reddish brown to dark reddish brown, sandy clay: till	NA	NA
MW-95-2A	8.15	9.15	CL	Very dense clay and coarse gravel	NA	NA
MW-95-2A	9.15	10.00	R	granite bedrock - severely weathered	27	NA
MW-95-2A	10.00	11.00	R	granite bedrock - severely weathered	47	NA
MW-95-2A	11.00	12.60	R	granite bedrock - severely weathered	47	NA
MW-95-3A	0.00	0.60	SM	Brown silty sand and gravel	NA	NA
MW-95-3A	0.60	10.10	CL	reddish brown sandy clay and gravel: till	NA	NA
MW-95-3A	10.10	11.10	R	severely weathered granitic bedrock or cemented sand	0	NA
MW-95-3A	11.10	12.50	R	severely weathered granitic bedrock or cemented sand	0	NA
MW-95-3A	12.50	14.00	R	severely weathered granitic bedrock or cemented sand	0	NA
MW-95-3A	14.00	15.70	R	severely weathered granitic bedrock or cemented sand	0	NA
MW-95-4A	0.00	0.15	RM	Topsoil and rootmat	NA	NA
MW-95-4A	0.15	1.20	SM	Brown silty sand and gravel	NA	NA
MW-95-4A	1.20	3.05	CL	Reddish brown sandy clay and gravel: till	NA	NA
MW-95-4A	3.05	3.76	SM	Brown silty sand and gravel: till	NA	NA
MW-95-4A	3.76	4.70	R	Granite bedrock	84	NA
MW-95-4A	4.70	5.40	R	Granite bedrock	77	NA
MW-95-4A	5.40	6.40	R	Granite bedrock	50	NA
MW-95-4A	6.40	6.75	R	Granite bedrock	27	NA
MW-95-4A	6.75	8.10	R	Granite bedrock	41	NA
MW-95-4A	8.10	9.60	R	Granite bedrock	60	NA
MW-95-4A	9.60	11.10	R	Granite bedrock	50	NA
MW-95-4A	11.10	12.60	R	Granite bedrock	52	NA
MW-95-4A	12.60	13.80	R	Granite bedrock	50	NA
AP-1	0.00	1.90	GM	Reddish brown silty sand and gravel to clayey sand and gravel - numerous	NA	NA
AP-1	1.90	6.40	CL	Reddish brown clayey sand and gravel, occasional cobbles: till	NA	NA
AP-1	6.40	6.70	R	Granite bedrock	NA	NA
AP-2	0.00	0.20	RM	Rootmat	NA	NA
AP-2	0.20	1.20	SM	Brown silty sand and gravel	NA	NA
AP-2	1.21	1.22	R	Inferred bedrock	NA	NA
AP-3	0.00	1.30	SM	Brown silty sand and gravel, occasional cobbles and boulders	NA	NA
AP-3	1.30	3.95	CL	Reddish brown sandy clay: till	NA	NA
AP-3	3.96	4.25	R	Granite bedrock	NA	NA
AP-4	0.00	1.22	SM	Brown silty sand and gravel	NA	NA
AP-4	1.22	2.11	R	Granite bedrock	NA	NA
AP-5	0.00	0.20	RM	Rootmat	NA	NA
AP-5	0.20	1.21	SM	Brown silty sand, some gravel - surface cobbles and boulders	NA	NA
AP-5	1.21	1.22	R	Inferred bedrock	NA	NA
AP-6	0.00	0.90	SM	Reddish brown silty sand and gravel to clayey sand and gravel	NA	NA
AP-6	0.90	1.22	R	Granite bedrock	NA	NA
AP-7	0.00	0.20	RM	Topsoil and grass	NA	NA
AP-7	0.20	7.80	CL	Reddish brown sandy clay some gravel, occasional cobbles: till	NA	NA
AP-7	7.80	10.35	CL	Reddish brown silty sand and gravel with clayey sand pockets: till	NA	NA
AP-7	10.35	12.80	CL	Reddish brown sandy clay, some gravel, occasional cobbles: till	NA	NA
AP-7	12.80	13.20	BG	Granite bedrock	NA	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
AP-8	0.00	3.81	SM	Reddish brown sandy clay and gravel: till	NA	NA
AP-8	3.81	3.90	R	Granite bedrock	NA	NA
AP-9	0.00	1.63	CL	Reddish brown sandy clay: till	NA	NA
AP-9	1.63	1.75	R	Granite bedrock	NA	NA
AP-10	0.00	7.00	CL	Reddish brown to dark reddish brown sandy clay and gravel: till	NA	NA
AP-10	7.00	7.48	R	Granite bedrock	NA	NA
BH1	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH1	0.61	2.74	SM	Compact reddish brown silty sand: till	NA	NA
BH1	2.74	25.30	CL	Stiff to hard sandy clay to clayey sand with gravel: till	NA	NA
BH1	25.30	26.00	R	Very severely fractured monzogranite: bedrock	0	NA
BH1	26.00	26.22	R	Very severely fractured monzogranite: bedrock	0	NA
BH2	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH2	0.61	3.15	SC	Loose reddish brown silty clayey sand with gravel: till	NA	NA
BH2	3.15	22.40	SC	Hard reddish brown clayey sand with gravel to sandy clay: till	NA	NA
BH3	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH3	0.46	21.25	CL	Very stiff to hard reddish brown sandy clay to clayey sand with gravel: till	NA	NA
BH4	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH4	0.46	23.15	CL	Firm to hard sandy clay: till	NA	NA
BH5	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH5	0.46	16.70	CL	Hard reddish brown sandy clay with gravel to clayey sand with gravel: till	NA	NA
BH-RD-1A	0.00	0.46	RM	root mat	NA	NA
BH-RD-1A	0.46	6.80	CL	stiff; hard reddish-brown clayey sand till	NA	NA
BH-RD-1A	6.80	7.30	R	Very severely fractured monzogranite	0	NA
BH-RD-1A	7.30	8.00	R	Very severely fractured monzogranite	0	NA
BH-RD-1A	8.00	8.40	R	Very severely fractured monzogranite	47	NA
BH-RD-1A	8.40	8.90	R	Very severely fractured monzogranite	0	NA
BH-RD-1A	8.90	10.00	R	Very severely fractured monzogranite	22	NA
BH-RD-1A	10.00	10.90	R	Very severely fractured monzogranite	34	NA
BH-RD-1A	10.90	11.75	R	Very severely fractured monzogranite	35	NA
BH-RD-1A	11.75	13.05	R	Very severely fractured monzogranite	0	NA
BH-RD-2A	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH-RD-2A	0.61	3.00	CL	Stiff to very stiff reddish brown sandy sitly clay: till	NA	NA
BH-RD-2A	3.00	4.93	CL	Very stiff to hard reddish brown sandy clay: till	NA	NA
BH-RD-2A	4.93	5.23	R	Very severely fractured to fractured monzogranite: bedrock	80	NA
BH-RD-2A	5.23	5.97	R	Very severely fractured to fractured monzogranite: bedrock	48	NA
BH-RD-2A	5.97	7.29	R	Very severely fractured to fractured monzogranite: bedrock	62	NA
BH-RD-2A	7.29	7.67	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-2A	7.67	8.09	R	Very severely fractured to fractured monzogranite: bedrock	52	NA
BH-RD-3	0.00	0.79	RM	Rootmat and topsoil	NA	NA
BH-RD-3	0.79	0.86	ML	Compact light brown sandy silt	NA	NA
BH-RD-3	0.86	1.77	R	Severely fractured to fractured monzogranite: bedrock	33	NA
BH-RD-3	1.77	2.13	R	Severely fractured to fractured monzogranite: bedrock	33	NA
BH-RD-3	2.13	3.48	R	Severely fractured to fractured monzogranite: bedrock	58	NA
BH-RD-3	3.48	3.83	R	Severely fractured to fractured monzogranite: bedrock	29	NA
BH-RD-4	0.00	0.13	RM	Rootmat	NA	NA
BH-RD-4	0.13	0.30	R	Very severely fractured to moderately sound monzogranite	0	NA
BH-RD-4	0.30	1.09	R	Very severely fractured to moderately sound monzogranite	52	NA
BH-RD-4	1.09	2.54	R	Very severely fractured to moderately sound monzogranite	89	NA
BH-RD-4	2.54	3.35	R	Very severely fractured to moderately sound monzogranite	19	NA
BH-RD-4	3.35	4.87	R	Very severely fractured to moderately sound monzogranite	0	NA
BH-RD-4	4.87	4.90	R	Very severely fractured to moderately sound monzogranite	0	NA
BH-RD-4	4.90	5.94	R	Very severely fractured to moderately sound monzogranite	0	NA
BH-RD-4	5.94	7.54	R	Very severely fractured to moderately sound monzogranite	60	NA
BH-RD-4	7.54	9.39	R	Very severely fractured to moderately sound monzogranite	41	NA
BH-RD-5	0.00	0.46	RM	Rootmat and topsoil	NA	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
BH-RD-5	0.46	0.97	SM	Compact brown silty sand: till	NA	NA
BH-RD-5	0.97	1.20	R	Fractured to moderately sound monzogranite: bedrock	NA	NA
BH-RD-5	1.20	2.15	R	Fractured to moderately sound monzogranite: bedrock	89	NA
BH-RD-5	2.15	3.35	R	Fractured to moderately sound monzogranite: bedrock	73	NA
BH-RD-5	3.35	5.25	R	Fractured to moderately sound monzogranite: bedrock	77	NA
BH-RD-5	5.25	6.55	R	Fractured to moderately sound monzogranite: bedrock	98	NA
BH-RD-5	6.55	6.75	R	Fractured to moderately sound monzogranite: bedrock	75	NA
BH-RD-5	6.75	7.15	R	Fractured to moderately sound monzogranite: bedrock	73	NA
BH-RD-6	0.00	0.30	RM	Rootmat and topsoil	NA	NA
BH-RD-6	0.30	2.72	SM	Compact to dense brown sand with silt and gravel: till	NA	NA
BH-RD-6	2.72	3.50	R	Severly fractured to fractured monzogranite: bedrock	47	NA
BH-RD-6	3.50	4.80	R	Severly fractured to fractured monzogranite: bedrock	77	NA
BH-RD-6	4.80	5.89	R	Severly fractured to fractured monzogranite: bedrock	60	NA
BH-RD-7	0.00	0.30	RM	Rootmat and topsoil	NA	NA
BH-RD-7	0.30	0.90	SM	Compact light brown silty sand	NA	NA
BH-RD-7	0.90	2.74	SC	Stiff reddish brown silty; clayey sand: till	NA	NA
BH-RD-7	2.74	4.07	CL	Very stiff reddish brown sandy clay: till	NA	NA
BH-RD-7	4.09	5.08	R	Very severly fractured to fractured monzogranite: bedrock	47	NA
BH-RD-7	5.08	6.60	R	Very severly fractured to fractured monzogranite: bedrock	30	NA
BH-RD-7	6.60	7.60	R	Very severly fractured to fractured monzogranite: bedrock	23	NA
BH-RD-8	0.00	0.71	RM	Rootmat and topsoil	NA	NA
BH-RD-8	0.71	1.52	SC	Very stiff reddish brown silty clayey sand: till	NA	NA
BH-RD-8	1.52	3.89	CL	Stiff to very stiff reddish brown sandy clay: till	NA	NA
BH-RD-8	3.89	4.47	R	Very severely fractured monzogranite	0	NA
BH-RD-8	4.47	4.98	R	Very severely fractured monzogranite	0	NA
BH-RD-8	4.98	6.33	R	Very severely fractured monzogranite	0	NA
BH-RD-8	6.33	7.90	R	Very severely fractured monzogranite	47	NA
BH-RD-9A	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-9A	0.46	0.91	ML	Compact reddish brown sandy silt: till	NA	NA
BH-RD-9A	0.91	3.99	CL	Stiff to hard reddish brown sandy clay: till	NA	NA
BH-RD-9A	3.99	4.03	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-9A	4.03	4.94	R	Very severely fractured to fractured monzogranite: bedrock	50	NA
BH-RD-9A	4.94	6.51	R	Very severely fractured to fractured monzogranite: bedrock	52	NA
BH-RD-9A	6.51	7.53	R	Very severely fractured to fractured monzogranite: bedrock	68	NA
BH-RD-9A	7.53	7.78	R	Very severely fractured to fractured monzogranite: bedrock	40	NA
BH-RD-9A	7.78	7.99	R	Very severely fractured to fractured monzogranite: bedrock	50	NA
BH-RD-9A	7.99	10.59	R	Very severely fractured to fractured monzogranite: bedrock	23	NA
BH-RD-10A	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-10A	0.46	0.91	SM	Compact silty sand with gravel: till	NA	NA
BH-RD-10A	0.91	2.87	CL	Very stiff reddish brown sandy clay: till	NA	NA
BH-RD-10A	2.87	3.96	R	Very severely fractured monzogranite: bedrock	0	NA
BH-RD-10A	3.96	5.53	R	Very severely fractured monzogranite: bedrock	13	NA
BH-RD-10A	5.53	5.81	R	Very severely fractured monzogranite: bedrock	0	NA
BH-RD-11	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH-RD-11	0.61	0.91	SM	Very dense light brown silty sand: till	NA	NA
BH-RD-11	0.91	1.14	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-11	1.14	1.62	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-11	1.62	1.77	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-11	1.77	3.02	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-11	3.02	3.12	R	Very severely fractured to fractured monzogranite: bedrock	100	NA
BH-RD-11	3.12	3.78	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-11	3.78	4.79	R	Very severely fractured to fractured monzogranite: bedrock	63	NA
BH-RD-11	4.79	6.29	R	Very severely fractured to fractured monzogranite: bedrock	36	NA
BH-RD-11	6.29	7.31	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-12	0.00	0.61	RM	Rootmat and topsoil	NA	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
BH-RD-12	0.61	0.86	SM	Very dense light brown silty sand: till	NA	NA
BH-RD-12	0.86	1.27	R	Severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-12	1.27	1.50	R	Severely fractured to fractured monzogranite: bedrock	44	NA
BH-RD-12	1.50	3.05	R	Severely fractured to fractured monzogranite: bedrock	74	NA
BH-RD-12	3.05	4.42	R	Severely fractured to fractured monzogranite: bedrock	49	NA
BH-RD-12	4.42	5.81	R	Severely fractured to fractured monzogranite: bedrock	45	NA
BH-RD-13A	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-13A	0.46	0.86	ML	Loose brown sandy; clayey silt: till	NA	NA
BH-RD-13A	0.86	2.72	CL	Stiff to very stiff reddish brown sandy clay: till	NA	NA
BH-RD-13A	2.72	2.92	R	Fractured monzogranite: bedrock	NA	NA
BH-RD-13A	2.92	4.22	R	Fractured monzogranite: bedrock	41	NA
BH-RD-13A	4.22	5.79	R	Fractured monzogranite: bedrock	61	NA
BH-RD-14A	0.00	1.47	RM	Rootmat and topsoil	NA	NA
BH-RD-14A	1.47	2.64	SC	Loose to dense light brown silty; clayey sand with gravel: till	NA	NA
BH-RD-14A	2.64	11.23	CL	Very stiff to hard reddish brown sandy clay with gravel: till	NA	NA
BH-RD-14A	11.23	12.32	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-14A	12.32	13.72	R	Very severely fractured to fractured monzogranite: bedrock	62	NA
BH-RD-15A	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH-RD-15A	0.61	0.76	ML	Compact reddish brown sandy silt: till	NA	NA
BH-RD-15A	0.76	3.03	CL	Very stiff reddish brown sandy clay with gravel: till	NA	NA
BH-RD-15A	3.03	3.10	R	Severely fractured monzogranite: bedrock	0	NA
BH-RD-15A	3.10	4.37	R	Severely fractured monzogranite: bedrock	44	NA
BH-RD-15A	4.37	5.92	R	Severely fractured monzogranite: bedrock	43	NA
BH-RD-15A	5.92	6.40	R	Severely fractured monzogranite: bedrock	100	NA
BH-RD-16	0.00	0.76	RM	Rootmat and topsoil	NA	NA
BH-RD-16	0.76	1.14	SM	Dense reddish brown silty sand: till	NA	NA
BH-RD-16	1.14	2.90	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-16	2.90	4.42	R	Very severely fractured to fractured monzogranite: bedrock	68	NA
BH-RD-17	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH-RD-17	0.61	2.29	BG	Cobbles and boulders	NA	NA
BH-RD-17	2.29	3.18	R	Fractured to moderately sound monzogranite: bedrock	40	NA
BH-RD-17	3.18	4.42	R	Fractured to moderately sound monzogranite: bedrock	82	NA
BH-RD-18	0.00	0.30	RM	Rootmat and topsoil	NA	NA
BH-RD-18	0.30	0.86	SM	Dense reddish brown silty sand: till	NA	NA
BH-RD-18	0.86	2.21	R	Severely fractured monzogranite: bedrock	0	NA
BH-RD-18	2.21	2.24	R	Severely fractured monzogranite: bedrock	0	NA
BH-RD-18	2.24	3.71	R	Severely fractured monzogranite: bedrock	17	NA
BH-RD-19	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-19	0.46	0.81	ML	Dense light brown sandy silt: till	NA	NA
BH-RD-19	0.81	1.04	R	Severely fractured to moderately sound monzogranite: bedrock	0	NA
BH-RD-19	1.04	2.36	R	Severely fractured to moderately sound monzogranite: bedrock	48	NA
BH-RD-19	2.36	3.89	R	Severely fractured to moderately sound monzogranite: bedrock	78	NA
BH-RD-20	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-20	0.46	3.07	BG	Cobbles and boulders with a matrix of reddish brown sandy silt: till	NA	NA
BH-RD-20	3.07	4.31	R	Fractured to very sound monzogranite: bedrock	57	NA
BH-RD-20	4.31	5.83	R	Fractured to very sound monzogranite: bedrock	80	NA
BH-RD-20	5.83	6.27	R	Fractured to very sound monzogranite: bedrock	100	NA
BH-RD-21	0.00	0.56	RM	Rootmat and topsoil	NA	NA
BH-RD-21	0.56	1.27	SM	Dense light brown silty sand with gravel: till	NA	NA
BH-RD-21	1.27	2.34	R	Very severely fractured to fractured monzogranite: bedrock	21	NA
BH-RD-21	2.34	4.01	R	Very severely fractured to fractured monzogranite: bedrock	26	NA
BH-RD-22	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH-RD-22	0.61	2.26	SC	Compact to dense light brown silty sand with gravel to silty; clayey sand wit	NA	NA
BH-RD-22	2.26	3.63	R	Very severely fractured monzogranite: bedrock	15	NA
BH-RD-22	3.63	4.34	R	Very severely fractured monzogranite: bedrock	18	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
BH-RD-22	4.34	5.56	R	Very severely fractured monzogranite: bedrock	13	NA
BH-RD-23	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-23	0.46	1.22	SM	Compact light brown silty sand with gravel: till	NA	NA
BH-RD-23	1.22	1.75	CL	Very stiff reddish brown sandy clay: till	NA	NA
BH-RD-23	1.75	2.41	R	Severely fractured monzogranite: bedrock	0	NA
BH-RD-23	2.41	3.73	R	Severely fractured monzogranite: bedrock	48	NA
BH-RD-23	3.73	5.26	R	Severely fractured monzogranite: bedrock	25	NA
BH-RD-24	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-24	0.46	0.91	SM	Very loose light brown silty sand	NA	NA
BH-RD-24	0.91	1.83	SC	Stiff to very stiff reddish brown silty; clayey; sand with gravel: till	NA	NA
BH-RD-24	1.83	1.96	R	Severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-24	1.96	3.48	R	Severely fractured to fractured monzogranite: bedrock	47	NA
BH-RD-24	3.48	5.11	R	Severely fractured to fractured monzogranite: bedrock	64	NA
BH-RD-25	0.00	0.91	RM	Rootmat and topsoil	NA	NA
BH-RD-25	0.91	1.73	SM	Compact reddish brown silty sand with gravel: till	NA	NA
BH-RD-25	1.73	2.39	R	Very severely fractured to severely fractured monzogranite: bedrock	0	NA
BH-RD-25	2.39	3.81	R	Very severely fractured to severely fractured monzogranite: bedrock	9	NA
BH-RD-25	3.81	5.33	R	Very severely fractured to severely fractured monzogranite: bedrock	38	NA
BH-RD-26	0.00	0.51	RM	Rootmat and topsoil	NA	NA
BH-RD-26	0.51	1.85	R	Fractured to moderately sound monzogranite: bedrock	74	NA
BH-RD-26	1.85	3.20	R	Fractured to moderately sound monzogranite: bedrock	71	NA
BH-RD-26	3.20	4.04	R	Fractured to moderately sound monzogranite: bedrock	85	NA
BH-RD-27	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH-RD-27	0.61	2.21	SM	Dense to very dense brown silty sand and gravel: till	NA	NA
BH-RD-27	2.21	2.92	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-27	2.92	4.44	R	Very severely fractured to fractured monzogranite: bedrock	65	NA
BH-RD-27	4.44	5.18	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-28	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-28	0.46	1.85	SM	Very dense brown silty sand: till	NA	NA
BH-RD-28	1.85	2.34	CL	Hard reddish brown sandy clay with gravel: till	NA	NA
BH-RD-28	2.34	2.69	R	Severely fractured monzogranite: bedrock	0	NA
BH-RD-28	2.69	3.63	R	Severely fractured monzogranite: bedrock	26	NA
BH-RD-28	3.63	5.51	R	Severely fractured monzogranite: bedrock	0	NA
BH-RD-29	0.00	0.61	RM	Rootmat and topsoil	NA	NA
BH-RD-29	0.61	1.83	CL	Very stiff reddish brown sandy clay: till	NA	NA
BH-RD-29	1.83	2.54	R	Severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-29	2.54	3.76	R	Severely fractured to fractured monzogranite: bedrock	17	NA
BH-RD-29	3.76	5.28	R	Severely fractured to fractured monzogranite: bedrock	53	NA
BH-RD-30	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-30	0.46	0.81	SM	Dense reddish brown silty sand with gravel	NA	NA
BH-RD-30	0.81	0.94	R	Very severely fractured to fractured monzogranite: bedrock	0	NA
BH-RD-30	0.94	2.29	R	Very severely fractured to fractured monzogranite: bedrock	23	NA
BH-RD-30	2.29	3.81	R	Very severely fractured to fractured monzogranite: bedrock	57	NA
BH-RD-31	0.00	0.46	RM	Rootmat and topsoil	NA	NA
BH-RD-31	0.46	1.27	SM	Very dense brown silty sand with gravel: till	NA	NA
BH-RD-31	1.27	5.84	SM	Compact to very dense reddish brown silty sand with gravel: till	NA	NA
BH-RD-31	5.84	5.94	R	Fractured to moderately sound monzogranite: bedrock	NA	NA
BH-RD-31	5.94	7.51	R	Fractured to moderately sound monzogranite: bedrock	84	NA
BH-RD-31	7.51	9.04	R	Fractured to moderately sound monzogranite: bedrock	52	NA
MW-1B	0.00	0.45	SM	Light brown; dry; loose to compact fine to medium sand; trace gravel	NA	NA
MW-1B	0.45	0.91	SM	Light brown; dry; loose to compact fine to medium sand; trace gravel	NA	NA
MW-1B	0.91	1.19	R	Fractured; Greyish-pink quartz-feldspar granite	NA	NA
MW-1B	1.19	2.21	R	Fractured; Greyish-pink quartz-feldspar granite	87	NA
MW-1B	2.21	3.71	R	Fractured; Greyish-pink quartz-feldspar granite	91	NA
MW-1B	3.71	5.21	R	Fractured; Greyish-pink quartz-feldspar granite	100	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
MW-1B	5.21	6.71	R	Fractured; Greyish-pink quartz-feldspar granite	97	NA
MW-1B	6.71	7.31	R	Fractured; Greyish-pink quartz-feldspar granite	75	NA
MW-2B	0.00	0.15	RM	Peat; roots; organic material; sand and gravel/silty clay	NA	NA
MW-2B	0.15	1.83	R	Fractured; grey; biotite-quartzite-feldspar granite	83	1
MW-2B	1.83	3.35	R	Fractured; grey; biotite-quartzite-feldspar granite	97	3
MW-2B	3.35	4.88	R	Fractured; grey; biotite-quartzite-feldspar granite	80	5
MW-2B	4.88	6.40	R	Fractured; grey; biotite-quartzite-feldspar granite	78	4
MW-2B	6.40	7.92	R	Fractured; grey; biotite - quartz - feldspar Granite	72	3
MW-2B	7.92	8.99	R	Fractured; grey; biotite-quartzite-feldspar granite	98	1
MW-2B	8.99	9.14	R	Fractured; grey; biotite - quartz - feldspar Granite	0	20
MW-3C	0.00	1.52	RM	Peat; organic material; and till	NA	NA
MW-3C	1.52	3.05	BG	Granite boulders; quartzite pebbles; and gravel	NA	NA
MW-3C	3.05	3.66	R	Fractured; pink; biotite - quartz - feldspar Granite	67	2
MW-3C	3.66	4.72	R	Fractured; pink; quartz-feldspar-granite	14	11
MW-3C	4.72	5.18	R	Fractured; pink; quartz-feldspar-granite	28	11
MW-3C	5.18	6.71	R	Fractured; pink; biotite - quartz - feldspar Granite	18	15
MW-3C	6.71	8.08	R	Fractured; pink; quartz-feldspar-granite	74	8
MW-3C	8.08	9.60	R	Fractured; pink; quartz-feldspar-granite	33	10
MW-3C	9.60	11.12	R	Fractured; pink; quartz-feldspar-granite	62	7
MW-3C	11.12	12.04	R	Fractured; pink; quartz-feldspar-granite	89	2
MW-3C	12.04	12.65	R	Fractured; pink; biotite - quartz - feldspar Granite	58	4
MW-3C	12.65	14.17	R	Fractured; pink; quartz-feldspar-granite	80	6
MW-3C	14.17	15.55	R	Fractured; grey; biotite - quartz - feldspar Granite	76	7
MW-4B	0.00	0.15	RM	Black peat and organic material	NA	NA
MW-4B	0.15	0.64	SM	Wet; brown silty sand and gravel	NA	NA
MW-4B	0.64	0.76	BG	Quartzite and granite boulders; silty sand and gravel	NA	NA
MW-4B	0.76	3.66	BG	Quartzite and granite boulders; silty sand and gravel	NA	NA
MW-4B	3.66	4.42	BG	Quartzite and granite boulders; silty sand and gravel	0	20
MW-4B	4.42	4.57	BG	Quartzite and granite boulders; silty sand and gravel	0	20
MW-4B	4.57	5.18	BG	Quartzite and granite boulders; silty sand and gravel	25	20
MW-4B	5.18	5.49	BG	Quartzite and granite boulders; silty sand and gravel	0	20
MW-4B	5.49	6.10	R	Fractured pink quartz-feldspar-biotite granite	0	20
MW-4B	6.10	6.40	R	Fractured pink quartz-feldspar-biotite granite	0	9
MW-4B	6.40	6.86	R	Fractured; pink quartz - felspar - biotite Granite	67	9
MW-4B	6.86	8.38	R	Fractured; pink quartz - felspar - biotite Granite	56	3
MW-4B	8.38	9.33	R	Fractured pink quartz-feldspar-biotite granite	80	2
MW-4B	9.33	9.94	R	Fractured pink quartz-feldspar-biotite granite	90	3
MW-4B	9.94	11.43	R	Fractured; pink quartz - felspar - biotite Granite	72	3
MW-4B	11.43	12.20	R	Fractured; pink quartz - felspar - biotite Granite	79	4
MW-5C	0.00	0.20	RM	Black peat and organic material	NA	NA
MW-5C	0.20	2.74	SM	Very dense; moist brown silty sand; with some gravel and boulders	NA	NA
MW-5C	2.74	3.56	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	0	12
MW-5C	3.56	4.37	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	0	20
MW-5C	4.37	5.08	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	32	8
MW-5C	5.08	6.07	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	0	6
MW-5C	6.07	6.60	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	0	20
MW-5C	6.60	8.13	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	28	13
MW-5C	8.13	9.65	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	57	5
MW-5C	9.65	11.18	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	100	3
MW-5C	11.18	12.70	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	100	1
MW-5C	12.70	14.22	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	97	3
MW-5C	14.22	15.49	R	Fractured; grey megacrystic quartz-feldspar-biotite granite	82	5
MW-6B	0.00	0.15	RM	Peat and organic material	NA	NA
MW-6B	0.15	1.52	SM	Dense; brown silty sand; some boulders and trace gravel: till	NA	NA
MW-6B	1.52	3.05	SM	Dense; brown silty sand; some boulders and trace gravel: till	NA	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
MW-6B	3.05	4.57	SM	Dense; brown silty sand; some boulders and trace gravel: till	NA	NA
MW-6B	4.57	6.25	SM	Dense; brown silty sand; some boulders and trace gravel: till	NA	NA
MW-6B	6.25	6.40	SM	Dense; brown silty sand; some boulders and trace gravel: till	NA	NA
MW-6B	6.40	7.62	R	Fractured; grey; biotite-quartz-feldspar granite	50	3
MW-6B	7.62	8.08	R	Fractured; grey; biotite-quartzite-feldspar granite	100	2
MW-6B	8.08	9.60	R	Fractured; grey; biotite-quartz-feldspar granite	67	5
MW-6B	9.60	11.13	R	Fractured; grey; biotite-quartz-feldspar granite	90	3
MW-6B	11.13	12.65	R	Fractured; grey; biotite-quartzite-feldspar granite	87	6
MW-7C	0.00	0.91	RM	Peat organic material; brown-black silt	NA	NA
MW-7C	0.91	8.23	BG	Granite and greywacke boulders	NA	NA
MW-7C	8.23	8.53	R	Pink to grey quartz-feldspar granite; some pegmatite	NA	NA
MW-7C	8.53	9.44	R	Pink to grey quartz-feldspar granite; some pegmatite	17	20
MW-7C	9.44	10.76	R	Pink/grey quartz-feldspar granite; some pegmatite	74	7
MW-7C	10.76	10.97	R	Pink to grey quartz-feldspar granite; some pegmatite	48	5
MW-7C	10.97	11.28	R	Pink/grey quartz-feldspar granite; some pegmatite	0	3
MW-7C	11.28	11.34	R	Pink to grey quartz-feldspar granite; some pegmatite	0	20
MW-7C	11.34	12.50	R	Pink to grey quartz-feldspar granite; some pegmatite	46	10
MW-7C	12.50	14.02	R	Pink/grey quartz-feldspar granite; some pegmatite	78	5
MW-7C	14.02	15.54	R	Pink to grey quartz-feldspar granite; some pegmatite	75	8
MW-7C	15.54	17.07	R	Pink/grey quartz-feldspar granite; some pegmatite	85	5
MW-7C	17.07	18.59	R	Pink to grey quartz-feldspar granite; some pegmatite	100	1
MW-7C	18.59	20.12	R	Pink/grey quartz-feldspar granite; some pegmatite	98	3
MW-7C	20.12	21.54	R	Pink to grey quartz-feldspar granite; some pegmatite	70	6
MW-8C	0.00	0.30	RM	Black; organic material	NA	NA
MW-8C	0.30	2.59	SM	Dense; tan silty; sandy gravel with boulders	NA	NA
MW-8C	2.59	3.58	R	Fractured grey-orange to grey quartz-feldspar-mica megacrystic granite	80	5
MW-8C	3.58	5.10	R	Fractured grey-orange to grey quartz-feldspar-mica megacrystic granite	90	5
MW-8C	5.10	6.63	R	Fractured grey-orange to grey quartz-feldspar-mica megacrystic granite	100	3
MW-8C	6.63	8.15	R	Fractured grey-orange to grey quartz-feldspar-mica megacrystic granite	87	6
MW-8C	8.15	9.68	R	Fractured grey-orange to grey quartz-feldspar-mica megacrystic granite	72	6
MW-8C	9.68	11.20	R	Fractured grey-orange to grey quartz-feldspar-mica megacrystic granite	97	2
MW-8C	11.20	12.34	R	Fractured grey-orange to grey quartz-feldspar-mica megacrystic granite	100	5
MW-9B	0.00	0.91	BG	Granitic boulders	NA	NA
MW-9B	0.91	1.53	SM	Dense; tan silty sand trace gravel	NA	NA
MW-9B	1.53	2.44	R	Pink to grey biotite-quartz-felspar granite	NA	NA
MW-9B	2.44	2.90	R	Pink to grey biotite-quartz-feldspar granite	NA	NA
MW-9B	2.90	3.35	R	Pink to grey biotite-quartz-feldspar granite	NA	NA
MW-9B	3.35	4.57	R	Pink to grey biotite-quartz-felspar granite	26	8
MW-9B	4.57	5.00	R	Pink to grey biotite-quartz-felspar granite	24	4
MW-9B	5.00	5.87	R	Pink to grey biotite-quartz-feldspar granite	84	7
MW-9B	5.87	6.86	R	Pink to grey biotite-quartz-feldspar granite	80	2
MW-10C	0.00	0.46	SM	Dense; moist brown sandy silt to silty sand; some gravel	NA	NA
MW-10C	0.46	1.07	SM	Dense; moist brown sandy silt to silty sand; some gravel	NA	NA
MW-10C	1.07	1.22	SM	Dense; moist brown sandy silt to silty sand; some gravel	NA	NA
MW-10C	1.22	1.91	R	Grey to pink quartz-feldspar-muscovite granite	18	20
MW-10C	1.91	2.44	R	Grey to pink quartz-feldspar-muscovite granite	19	10
MW-10C	2.44	2.90	R	Grey to pink quartz-feldspar-muscovite granite	61	6
MW-10C	2.90	3.50	R	Grey to pink quartz-feldspar-muscovite granite	17	15
MW-10C	3.50	4.11	R	Grey to pink quartz-feldspar-muscovite granite	17	15
MW-10C	4.11	4.57	R	Grey to pink quartz-feldspar-muscovite granite	44	11
MW-10C	4.57	5.00	R	Grey to pink quartz-feldspar-muscovite granite	53	9
MW-10C	5.00	6.60	R	Grey to pink quartz-feldspar-muscovite granite	57	16
MW-10C	6.60	8.13	R	Grey to pink quartz-feldspar-muscovite granite	58	10
MW-10C	8.13	9.60	R	Grey to pink quartz-feldspar-muscovite granite	26	12
MW-10C	9.60	9.96	R	Grey to pink quartz-feldspar-muscovite granite	28	14

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
MW-10C	9.96	11.20	R	Grey to pink quartz-feldspar-muscovite granite	33	15
MW-10C	11.20	11.73	R	Grey to pink quartz-feldspar-muscovite granite	48	6
MW-10C	11.73	12.70	R	Grey to pink quartz-feldspar-muscovite granite	26	17
MW-10C	12.70	14.22	R	Grey to pink quartz-feldspar-muscovite granite	33	15
MW-10C	14.22	14.78	R	Grey to pink quartz-feldspar-muscovite granite	23	16
MW-10C	14.78	15.54	R	Grey to pink quartz-feldspar-muscovite granite	37	12
MW-11B	0.00	0.46	RM	Organic material; peat	NA	NA
MW-11B	0.46	2.11	R	Grey quartz-feldspar-mica megacrystic granite	14	5
MW-11B	2.11	3.63	R	Grey quartz-feldspar-mica megacrystic granite	62	7
MW-11B	3.63	5.05	R	Grey quartz-feldspar-mica megacrystic granite	86	3
MW-11B	5.05	6.58	R	Grey quartz-feldspar-mica megacrystic granite	93	4
MW-11B	6.58	8.08	R	Grey quartz-feldspar-mica megacrystic granite	97	2
MW-11B	8.08	9.60	R	Grey quartz-feldspar-mica megacrystic granite	95	1
MW-12B	0.00	0.61	SM	Moist brown sandy silt; some gravel	NA	NA
MW-12B	0.61	0.76	R	Greyish-pink quartz-feldspar-biotite; megacrystic; xenolithic monzogranite	NA	NA
MW-12B	0.76	1.78	R	Greyish-pink quartz-feldspar-biotite; megacrystic; xenolithic monzogranite	60	3
MW-12B	1.78	3.02	R	Greyish-pink quartz-feldspar-biotite; megacrystic; xenolithic monzogranite	66	3
MW-12B	3.02	4.67	R	Greyish-pink quartz-feldspar-biotite; megacrystic; xenolithic monzogranite	95	2
MW-12B	4.67	6.07	R	Greyish-pink quartz-feldspar-biotite; megacrystic; xenolithic monzogranite	100	1
MW-12B	6.07	7.54	R	Greyish-pink quartz-feldspar-biotite; megacrystic; xenolithic monzogranite	86	3
MW-12B	7.54	8.99	R	Greyish-pink quartz-feldspar-biotite; megacrystic; xenolithic monzogranite	100	1
MW-13C	0.00	0.61	RM	Organic material overlying loose; moist grey sandy silt	NA	NA
MW-13C	0.61	1.52	ML	Wet; compact; red-brown sandy clayey silt; some gravel - till.	NA	NA
MW-13C	1.52	1.91	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	80	5
MW-13C	1.91	2.29	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	53	3
MW-13C	2.29	3.81	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	48	10
MW-13C	3.81	5.24	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	66	7
MW-13C	5.24	6.78	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	48	11
MW-13C	6.78	8.08	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	82	3
MW-13C	8.08	8.38	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	92	3
MW-13C	8.38	9.91	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	32	18
MW-13C	9.91	11.43	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	73	5
MW-13C	11.43	12.95	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	85	4
MW-13C	12.95	14.17	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	35	11
MW-13C	14.17	15.70	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	98	3
MW-13C	15.70	15.85	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	100	13
MW-13C	15.85	17.45	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	89	4
MW-13C	17.45	18.97	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	92	3
MW-13C	18.97	20.50	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	73	4
MW-13C	20.50	22.02	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	92	3
MW-13C	22.02	23.54	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	93	3
MW-13C	23.54	25.07	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	100	1
MW-13C	25.07	26.59	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	84	4
MW-13C	26.59	28.12	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	100	3
MW-13C	28.12	29.64	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	100	1
MW-13C	29.64	31.24	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	100	0
MW-13C	31.24	32.84	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	67	3
MW-13C	32.84	34.36	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	100	0
MW-13C	34.36	35.89	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	75	5
MW-13C	35.89	37.41	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	NA	NA
MW-13C	37.41	38.94	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	87	1
MW-13C	38.94	40.46	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	100	0
MW-13C	40.46	41.99	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	100	0
MW-13C	41.99	43.51	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	93	1
MW-13C	43.51	45.03	R	Fractured pink-grey to grey megacrystic monzogranite with dioritic xenoliths	93	1

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
MW-14B	0.00	0.61	RM	Organic material overlying loose; moist; brown sandy silt	NA	NA
MW-14B	0.61	1.52	CL	Loose; wet to moist; red-brown silty clay; some sand and gravel - till	NA	NA
MW-14B	1.52	3.05	CL	Loose; wet to moist; red-brown silty clay; some sand and gravel - till	NA	NA
MW-14B	3.05	4.57	CL	Compact; moist red-brown silty clay; trace sand and gravel - till	NA	NA
MW-14B	4.57	5.79	CL	Compact; moist red-brown silty clay; trace sand and gravel - till	NA	NA
MW-14B	5.79	12.80	CL	Compact; moist red-brown silty clay; trace sand and gravel - till	NA	NA
MW-14B	12.80	13.10	CL	Compact; moist red-brown silty clay; trace sand and gravel - till	NA	NA
MW-14B	13.10	14.10	R	Fractured; grey quartz-feldspar-biotite megacrystic; highly weathered/ altere	64	4
MW-14B	14.10	15.77	R	Fractured; grey quartz-feldspar-biotite megacrystic; highly weathered/ altere	52	5
MW-14B	15.77	17.30	R	Fractured; grey quartz-feldspar-biotite megacrystic; highly weathered/ altere	8	11
MW-14B	17.30	18.82	R	Fractured; grey quartz-feldspar-biotite megacrystic; highly weathered/ altere	47	11
MW-14B	18.82	19.66	R	Fractured; grey quartz-feldspar-biotite megacrystic; highly weathered/ altere	39	12
MW-15C	0.00	5.49	CL	Moist; brown clay; some silt and gravel: till	NA	NA
MW-15C	5.49	7.62	R	Granite boulders; dry sand and silt	NA	NA
MW-15C	7.62	7.85	R	Fractured; grey; biotite-quartzite-feldspar granite	NA	NA
MW-15C	7.85	9.22	R	Fractured; grey; biotite - quartz - feldspar Granite	87	9
MW-15C	9.22	10.82	R	Fractured; grey; biotite - quartz - feldspar Granite	83	7
MW-15C	10.82	12.34	R	Fractured; grey; biotite-quartzite-feldspar granite	79	9
MW-15C	12.34	14.02	R	Fractured; grey; biotite-quartzite-feldspar granite	68	9
MW-15C	14.02	15.54	R	Fractured; grey; biotite - quartz - feldspar Granite	65	8
MW-15C	15.54	17.07	R	Fractured; grey; biotite-quartzite-feldspar granite	97	4
MW-15C	17.07	17.98	R	Fractured; grey; biotite-quartzite-feldspar granite	53	4
MW-16B	0.00	4.42	CL	Moist; compact red-brown sandy silt and clay; some gravel: till	NA	NA
MW-16B	4.42	5.03	R	Grey; quartz-feldspar megacrystic granite	71	5
MW-16B	5.03	6.55	R	Grey; quartz-feldspar megacrystic granite	82	3
MW-16B	6.55	8.08	R	Grey; quartz-feldspar megacrystic granite	77	3
MW-16B	8.08	9.60	R	Grey; quartz-feldspar megacrystic granite	60	10
MW-16B	9.60	10.67	R	Grey; quartz-feldspar megacrystic granite	57	6
MW-17B	0.00	0.61	CL	Moist; loose to compact brown sandy silt; some clay and gravel: till	NA	NA
MW-17B	0.61	1.07	CL	Moist; loose to compact brown sandy silt; some clay and gravel: till	NA	NA
MW-17B	1.07	2.07	R	Grey; quartz-feldspar granite	98	3
MW-17B	2.07	3.60	R	Grey; quartz-feldspar granite	57	8
MW-17B	3.60	5.12	R	Grey; quartz-feldspar granite	65	12
MW-17B	5.12	5.33	R	Grey; quartz-feldspar granite	0	9
MW-17B	5.33	6.55	R	Grey; quartz-feldspar granite	65	7
MW-17B	6.55	8.08	R	Grey; quartz-feldspar granite	70	7
MW-18C	0.00	0.61	CL	Compact; wet to moist brown clayey silt; some sand and gravel: till	NA	NA
MW-18C	0.61	1.22	CL	Compact; wet to moist brown clayey silt; some sand and gravel: till	NA	NA
MW-18C	1.22	1.83	CL	Compact; wet to moist brown clayey silt; some sand and gravel: till	NA	NA
MW-18C	1.83	1.98	R	Grey to orange quartz-feldspar-biotite granite	NA	NA
MW-18C	1.98	3.66	R	Grey to orange quartz-feldspar-biotite granite	61	8
MW-18C	3.66	5.18	R	Grey to orange quartz-feldspar-biotite granite	73	7
MW-18C	5.18	6.71	R	Grey to orange quartz-feldspar-biotite granite	73	10
MW-18C	6.71	8.22	R	Grey to orange quartz-feldspar-biotite granite	95	5
MW-18C	8.22	9.75	R	Grey to orange quartz-feldspar-biotite granite	53	100
MW-18C	9.75	11.28	R	Grey to orange quartz-feldspar-biotite granite	98	1
MW-18C	11.28	11.73	R	Grey to orange quartz-feldspar-biotite granite	67	9
MW-18C	11.73	12.65	R	Grey to orange quartz-feldspar-biotite granite	100	0
MW-18C	12.65	13.50	R	Grey to orange quartz-feldspar-biotite granite	95	2
MW-18C	13.50	14.30	R	Grey to orange quartz-feldspar-biotite granite	87	5
MW-18C	14.30	15.82	R	Grey to orange quartz-feldspar-biotite granite	77	5
MW-18C	15.82	17.34	R	Grey to orange quartz-feldspar-biotite granite	95	1
MW-18C	17.34	18.87	R	Grey to orange quartz-feldspar-biotite granite	100	3
MW-18C	18.87	20.39	R	Grey to orange quartz-feldspar-biotite granite	92	4
MW-18C	20.39	21.92	R	Grey to orange quartz-feldspar-biotite granite	78	6

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
MW-18C	21.92	23.44	R	Grey to orange quartz-feldspar-biotite granite	40	10
MW-18C	23.44	24.96	R	Grey to orange quartz-feldspar-biotite granite	48	12
MW-18C	24.96	26.43	R	Grey to orange quartz-feldspar-biotite granite	94	5
MW-18C	26.43	27.95	R	Grey to orange quartz-feldspar-biotite granite	77	5
MW-18C	27.95	29.47	R	Grey to orange quartz-feldspar-biotite granite	82	3
MW-18C	29.47	30.94	R	Grey to orange quartz-feldspar-biotite granite	70	6
MW-18C	30.94	32.46	R	Grey to orange quartz-feldspar-biotite granite	83	4
MW-18C	32.46	33.99	R	Grey to orange quartz-feldspar-biotite granite	62	8
MW-18C	33.99	35.51	R	Grey to orange quartz-feldspar-biotite granite	95	4
MW-18C	35.51	37.03	R	Grey to orange quartz-feldspar-biotite granite	85	4
MW-18C	37.03	37.80	R	Grey to orange quartz-feldspar-biotite granite	77	4
MW-18C	37.80	39.01	R	Grey to orange quartz-feldspar-biotite granite	13	6
MW-19B	0.00	3.13	SM		NA	NA
MW-19B	3.13	3.74	R	Fractured; grey quartz-feldspar granite	88	NA
MW-19B	3.74	5.26	R	Fractured; grey quartz-feldspar granite	92	NA
MW-19B	5.26	6.71	R	Fractured; grey quartz-feldspar granite	94	NA
MW-19B	6.71	8.31	R	Fractured; grey quartz-feldspar granite	75	NA
MW-19B	8.31	9.97	R	Fractured; grey quartz-feldspar granite	92	NA
MW-20B	0.00	2.36	SG	Light brown; moist to wet; compact sand and gravel intermixed with granite	NA	NA
MW-20B	2.36	3.60	R	Fractured; grey biotite-quartz-feldspar granite	72	2
MW-20B	3.60	5.12	R	Fractured; grey biotite-quartz-feldspar granite	73	2
MW-20B	5.12	6.64	R	Fractured; grey biotite-quartz-feldspar granite	83	2
MW-20B	6.64	8.16	R	Fractured; grey biotite-quartz-feldspar granite	73	3
MW-20B	8.16	9.50	R	Fractured; grey biotite-quartz-feldspar granite	96	2
MW-21B	0.00	0.30	RM	Rootmat and topsoil	NA	NA
MW-21B	0.30	0.79	SM	Loose light brown silty sand with gravel	NA	NA
MW-21B	0.79	1.73	R	Very severely fractured monzogranite: bedrock	30	NA
MW-21B	1.73	2.29	R	Very severely fractured monzogranite: bedrock	0	NA
MW-21B	2.29	3.33	R	Very severely fractured monzogranite: bedrock	10	NA
MW-21B	3.33	3.45	R	Very severely fractured monzogranite: bedrock	80	NA
MW-22	0.00	0.08	RM	Brownish-black; soft; wet; organics (root mass)	NA	NA
MW-22	0.08	2.43	SM	Brown; compact; wet silty sand and gravel intermixed with boulders	NA	NA
MW-22	2.43	3.96	CL	Brown; compact; stiff; wet silty clay	NA	NA
MW-22	3.96	5.79	CL	Brown; compact; stiff; wet silty clay	NA	NA
MW-22	5.79	7.00	CL	Brown; compact; stiff; wet silty clay	NA	NA
MW-23	0.00	0.61	RM	Loose; moist; brown organic material; silt; sand and gravel	NA	NA
MW-23	0.61	1.52	SM	Very dense; wet to moist; brown silty sand and gravel	NA	NA
MW-23	1.52	2.13	SM	Very dense; wet to moist; brown silty sand and gravel	NA	NA
MW-23	2.13	3.05	CL	Very dense; moist; brown silt; some sand; clay; and gravel	NA	NA
MW-23	3.05	5.18	CL	Very dense; moist; brown silt; some sand; clay; and gravel	NA	NA
TP-101	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-101	0.30	1.07	ML	Compact to dense brown sandy silt: till	NA	NA
TP-101	1.07	2.59	SC	Stiff reddish brown silty, clayey sand: till	NA	NA
TP-101	2.59	2.64	R	inferred bedrock	NA	NA
TP-102	0.00	0.46	RM	Rootmat and topsoil	NA	NA
TP-102	0.46	0.56	ML	Compact brown sandy silt: till	NA	NA
TP-102	0.56	0.61	R	inferred bedrock	NA	NA
TP-103	0.00	0.20	RM	Rootmat and topsoil	NA	NA
TP-103	0.20	1.07	GM	Compact brown silty gravel with sand	NA	NA
TP-103	1.07	1.12	R	inferred bedrock	NA	NA
TP-104	0.00	0.41	RM	Rootmat and topsoil	NA	NA
TP-104	0.41	0.71	SM	Compact to dense brown silty sand: till	NA	NA
TP-104	0.71	0.76	R	inferred bedrock	NA	NA
TP-105	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-105	0.30	0.91	SM	Compact to dense brown silty sand with gravel: till - some cobbles and bou	NA	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
TP-105	0.91	1.17	BG	Broken up granite	NA	NA
TP-105	1.17	1.22	R	inferred bedrock	NA	NA
TP-106	0.00	0.38	RM	Rootmat and topsoil	NA	NA
TP-106	0.38	1.47	SM	Compact to dense brown silty sand with gravel: till	NA	NA
TP-106	1.47	1.52	R	inferred bedrock	NA	NA
TP-107	0.00	0.41	RM	Rootmat and topsoil	NA	NA
TP-107	0.41	5.18	SM	Compact to dense black silty sand with gravel: till - occasional cobbles and	NA	NA
TP-108	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-108	0.30	4.06	SM	Compact reddish brown silty sand: till - some cobbles	NA	NA
TP-108	4.06	4.11	R	inferred bedrock	NA	NA
TP-109	0.00	0.53	RM	Rootmat and topsoil	NA	NA
TP-109	0.53	1.73	SM	Compact to dense brown silty sand: till - some cobbles	NA	NA
TP-109	1.73	1.78	R	inferred bedrock	NA	NA
TP-110	0.00	0.66	RM	Brown topsoil	NA	NA
TP-110	0.66	2.13	SM	Compact brown silty sand with gravel: till	NA	NA
TP-110	2.13	3.91	SC	Dense reddish brown clayey sand with gravel: till	NA	NA
TP-110	3.91	3.96	R	inferred bedrock	NA	NA
TP-111	0.00	0.30	RM	Rootmat	NA	NA
TP-111	0.30	1.47	SM	Compact brown silty sand with gravel: till	NA	NA
TP-111	1.47	1.52	R	inferred bedrock	NA	NA
TP-112	0.00	0.30	RM	Rootmat	NA	NA
TP-112	0.30	2.69	BG	Compact to dense brown cobbles and boulders with a matrix of silty sand: t	NA	NA
TP-112	2.69	2.74	R	inferred bedrock	NA	NA
TP-113	0.00	0.56	RM	Rootmat and topsoil	NA	NA
TP-113	0.56	0.61	R	inferred bedrock	NA	NA
TP-114	0.00	0.25	RM	Rootmat and topsoil	NA	NA
TP-114	0.25	2.43	SM	Very dense brown cobbles and boulders with matrix of silty sand: till	NA	NA
TP-115	0.00	0.53	RM	Rootmat and topsoil	NA	NA
TP-115	0.53	1.17	SM	Compact to dense brown silty sand with gravel: till - some cobbles	NA	NA
TP-115	1.17	1.22	R	inferred bedrock	NA	NA
TP-116	0.00	0.30	RM	Rootmat	NA	NA
TP-116	0.30	0.76	SM	Compact reddish brown silty sand with gravel: till	NA	NA
TP-116	0.76	0.81	R	inferred bedrock	NA	NA
TP-117	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-117	0.30	4.67	CL	Very stiff reddish brown sandy clay: till - numerous cobbles	NA	NA
TP-117	4.67	4.72	R	inferred bedrock	NA	NA
TP-118	0.00	0.30	RM	Rootmat	NA	NA
TP-118	0.30	0.91	P	Loose brown to black peat	NA	NA
TP-118	0.91	1.52	BG	Loose gray sand with cobbles and boulders	NA	NA
TP-119	0.00	0.61	RM	Rootmat and topsoil	NA	NA
TP-119	0.61	3.05	SD	Compact to dense grayish brown sand with cobbles and boulders	NA	NA
TP-119	3.05	3.96	SM	Dense brown sandy silt with gravel: till	NA	NA
TP-119	3.96	4.27	BG	Broken up granite	NA	NA
TP-120	0.00	0.30	RM	Rootmat	NA	NA
TP-120	0.30	0.61	SD	compact brown sand and gravel	NA	NA
TP-120	0.62	3.66	SG	Compact grayish brown gravel with silt and sand - numerous cobbles and b	NA	NA
TP-120	3.66	4.52	ML	Dense brown sandy silt with gravel: till - numerous cobbles and some boul	NA	NA
TP-120	4.52	4.57	R	inferred bedrock?	NA	NA
TP-121	0.00	0.30	RM	Rootmat	NA	NA
TP-121	0.30	1.93	SM	Dense grayish brown sand with silt and gravel - some cobbles and boulders	NA	NA
TP-122	0.00	0.30	RM	Rootmat	NA	NA
TP-122	0.30	4.88	ML	Dense brown sandy silt: till - numerous cobbles and boulders	NA	NA
TP-123	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-123	0.30	4.88	SM	Dense brown silty sand with gravel - numerous cobbles and boulders	NA	NA
TP-124	0.00	0.61	RM	Rootmat and topsoil	NA	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
TP-124	0.61	3.91	BG	Dense brown sand with silt and gravel - numerous cobbles and boulders	NA	NA
TP-124	3.91	3.96	R	inferred bedrock?	NA	NA
TP-125	0.00	0.91	RMB	Rootmat and topsoil - numerous cobbles and boulders	NA	NA
TP-125	0.91	2.39	SC	Dense brown silty clayey sand with gravel and cobbles	NA	NA
TP-125	2.39	2.44	SC	inferred bedrock?	NA	NA
TP-126	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-126	0.30	4.06	BG	Dense to very dense brown gravel cobbles and boulders with sand matrix	NA	NA
TP-126	4.06	4.11	BG	inferred bedrock?	NA	NA
TP-127	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-127	0.30	3.04	BG	Dense cobbles and boulders with matrix of sand and gravel	NA	NA
TP-127	3.04	4.22	SM	Compact to dense reddish brown silty clayey sand with gravel: till - numero	NA	NA
TP-127	4.22	4.27	SM	inferred bedrock?	NA	NA
TP-128	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-128	0.30	1.88	SG	Compact grey sand and gravel	NA	NA
TP-128	1.88	2.74	BG	Dense to very dense cobbles and boulders with a matrix of brown sand	NA	NA
TP-128	2.74	4.72	SM	Compact to dense reddish brown silty clayey sand with gravel: till - numero	NA	NA
TP-129	0.00	0.61	RMB	Rootmat and topsoil - numerous boulders	NA	NA
TP-129	0.61	1.52	SG	Dense brown sand with gravel, some cobbles	NA	NA
TP-129	1.52	4.88	CL	Dense reddish brown clayey sand with gravel to stiff brown sandy clay with	NA	NA
TP-130	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-130	0.30	3.05	SC	Compact to dense brown sand with clay: till - frequent cobbles and boulder	NA	NA
TP-130	3.05	6.09	SM	Compact reddish brown silty sand with clay: till - numerous cobbles and bo	NA	NA
TP-131	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-131	0.30	4.57	SM	Compact brown silty sand with gravel: till - frequent cobbles and boulders	NA	NA
TP-131	4.57	5.49	SC	Compact to dense brown silty, clayey sand with gravel: till	NA	NA
TP-132	0.00	0.91	RM	Rootmat and topsoil	NA	NA
TP-132	0.91	6.40	CL	Stiff reddish brown sandy clay with gravel: till - numerous cobbles	NA	NA
TP-133	0.00	0.91	RM	Rootmat and topsoil	NA	NA
TP-133	0.91	5.79	CL	Stiff to very stiff reddish brown sandy clay with gravel: till - occasional sand	NA	NA
TP-134	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-134	0.30	0.56	SM	Compact brown silty sand with gravel: till	NA	NA
TP-134	0.56	0.61	R	inferred bedrock	NA	NA
TP-135	0.00	0.61	RM	Rootmat and topsoil	NA	NA
TP-135	0.61	5.89	CL	Stiff to very stiff reddish brown sandy clay with gravel: till	NA	NA
TP-135	5.89	5.94	CL	inferred bedrock	NA	NA
TP-136	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-136	0.30	0.91	SM	Loose to compact brown silty sand with cobbles and boulders	NA	NA
TP-136	0.91	5.49	CL	Stiff to very stiff reddish brown sandy clay: till - numerous cobbles	NA	NA
TP-136	5.49	6.10	SG	Compact to dense brown sand with gravel	NA	NA
TP-136	6.10	6.15	BG	Broken up granite: bedrock	NA	NA
TP-136	6.15	6.20	R	inferred bedrock	NA	NA
TP-137	0.00	0.91	RM	Rootmat and topsoil	NA	NA
TP-137	0.91	1.93	SM	Compact brown silty clayey sand: till - occasional cobbles and boulders	NA	NA
TP-137	1.93	1.98	R	inferred bedrock	NA	NA
TP-138	0.00	0.91	RM	Rootmat and topsoil	NA	NA
TP-138	0.91	3.00	SC	Compact brown silty clayey sand with gravel: till - occasional cobbles and	NA	NA
TP-138	3.00	3.05	R	inferred bedrock	NA	NA
TP-B1	0.00	0.61	RM	Rootmat and topsoil	NA	NA
TP-B1	0.61	2.74	SC	Sitff reddish brown clayey sand with gravel: till - pockets of silty sand	NA	NA
TP-B1	2.74	4.57	CL	Very stiff to hard sandy clay with gravel: till	NA	NA
TP-B2	0.00	0.46	RM	Rootmat and topsoil	NA	NA
TP-B2	0.46	0.91	SM	Compact reddish brown silty sand: till	NA	NA
TP-B2	0.91	4.57	SC	Very dense reddish brown clayey sand with gravel: till	NA	NA
TP-RD-1	0.00	0.56	RM	Rootmat and topsoil	NA	NA
TP-RD-1	0.56	0.86	SC	Compact brown silty sand and gravel	NA	NA

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Hole ID	Depth From	Depth To	Lith. Unit	Description	RQD	Fractures/m
TP-RD-1	0.86	4.88	CL	Soft reddish brown sandy clay with gravel: till - numerous cobbles and boul	NA	NA
TP-RD-2	0.00	0.71	RM	Rootmat and topsoil	NA	NA
TP-RD-2	0.71	3.46	CL	Very stiff reddish brown sandy clay with gravel - numerous cobbles and bou	NA	NA
TP-RD-2	3.46	3.51	R	inferred bedrock	NA	NA
TP-RD-3	0.00	0.46	RMB	Rootmat and topsoil - numerous boulders	NA	NA
TP-RD-3	0.46	0.74	SM	Compact brown silty sand: till - occasional cobbles	NA	NA
TP-RD-3	0.74	0.79	R	inferred bedrock	NA	NA
TP-RD-4	0.00	0.64	RM	Rootmat and topsoil	NA	NA
TP-RD-4	0.64	3.46	CL	Hard reddish brown sandy,silty clay with gravel: till - numerous cobbles	NA	NA
TP-RD-4	3.46	3.51	R	inferred bedrock	NA	NA
TP-RD-5	0.00	0.41	RM	Rootmat and topsoil	NA	NA
TP-RD-5	0.41	0.86	CL	Stiff reddish brown sandy sitly clay with gravel: till	NA	NA
TP-RD-5	0.86	5.18	CL	Very stiff reddish brown sandy clay: till	NA	NA
TP-RD-6	0.00	0.61	RM	Rootmat and topsoil	NA	NA
TP-RD-6	0.61	1.32	SM	Compact to dense brown silty sand with gravel: till	NA	NA
TP-RD-6	1.32	1.37	R	inferred bedrock	NA	NA
TP-RD-7	0.00	0.76	RM	Rootmat and topsoil	NA	NA
TP-RD-7	0.76	1.47	SM	Compact to dense brown silty sand with gravel: till	NA	NA
TP-RD-7	1.47	1.52	SM	inferred bedrock	NA	NA
TP-RD-8	0.00	0.41	RM	Rootmat and topsoil	NA	NA
TP-RD-8	0.41	0.76	SM	Compact brown silty sand with gravel: till	NA	NA
TP-RD-8	0.76	4.37	ML	Compact reddish brown sandy silt: till - zones of silty sand	NA	NA
TP-RD-8	4.37	4.42	R	inferred bedrock	NA	NA
TP-RD-9	0.00	0.61	RMB	Rootmat with cobbles	NA	NA
TP-RD-9	0.61	1.22	SM	Compact brown silty sand with gravel: till - packets of coarse sand	NA	NA
TP-RD-9	1.22	1.83	SC	Soft reddish brown clayey sand: till	NA	NA
TP-RD-9	1.83	2.85	SM	Dense brown silty sand with gravel: till	NA	NA
TP-RD-9	2.85	2.90	R	inferred bedrock	NA	NA
TP-RD-10	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-RD-10	0.30	0.76	SM	Compact brown silty sand with gravel: till	NA	NA
TP-RD-10	0.76	5.18	SC	Stiff to very stiff reddish brown clayey sand with gravel: till	NA	NA
TP-RD-18	0.00	0.30	RM	Rootmat and topsoil	NA	NA
TP-RD-18	0.30	1.82	SM	Dense brown silty sand with gravel: till - frequent cobbles and boulders	NA	NA
TP-RD-18	1.82	4.21	BG	Cobbles and boulders with a matrix of brown sand and gravel	NA	NA
TP-RD-18	4.21	4.26	R	inferred bedrock	NA	NA

k.dbf Fields

Field	Description
HOLE_ID	Hole ID
DEPTH_FROM	Depth in m below grade at which interval begins
DEPTH_TO	Depth in m below grade at which interval ends
K_NORMALIZ	normalized hydraulic conductivity
K	hydraulic conductivity in cm/s
DATE	Date
UNIT	Lithology unit: sand till, clay till, or bedrock
TEST_TYPE	Test type: bail or slug

Notes:
Normalized K = 6.0 - (1 + log (k))

Hydraulic Conductivity

K.dbf

Hole ID	Depth From	Depth To	Normalized K	K	Date	Unit
BH-RD-10A	3.83	5.81	4.1	1.20X-3	27-Feb-96	Granite
BH-RD-11	4.06	7.31	3.9	8.00X-4	27-Feb-96	Granite
BH-RD-12	2.82	5.81	4.5	3.10X-3	27-Feb-96	Granite
BH-RD-13A	3.1	5.63	3.4	2.30X-4	27-Feb-96	Granite
BH-RD-14A	10.66	13.72	4.4	2.50X-3	7-May-96	Granite
BH-RD-14B	3.86	5.96	1	1.00X-6	7-May-96	ST
BH-RD-15A	0.84	2.69	2.5	3.40X-5	7-May-96	CT
BH-RD-15A	3.66	6.4	3.7	5.00X-4	7-May-96	Granite
BH-RD-16	2.41	4.42	5.5	3.00X-2	2-May-96	Granite
BH-RD-19	1.83	3.89	4.1	1.20X-3	2-May-96	Granite
BH-RD-1A	9.8	13	2.4	2.62X-5	27-Feb-96	Granite
BH-RD-1B	2.5	4.2	1.2	1.72X-6	27-Feb-96	CT
BH-RD-20	4.19	6.27	2.5	3.10X-5	2-May-96	Granite
BH-RD-21	1.22	4.01	4.3	2.20X-3	2-May-96	Granite
BH-RD-22	3.53	5.56	4.8	6.00X-3	2-May-96	Granite
BH-RD-23	2.97	5.26	3.1	1.20X-4	2-May-96	Granite
BH-RD-24	3.28	5.11	2.3	2.20X-5	2-May-96	Granite
BH-RD-25	3.58	5.33	4.2	1.70X-3	2-May-96	Granite
BH-RD-26	1.52	4.04	3.6	4.00X-4	2-May-96	Granite
BH-RD-27	1.83	5.18	3.3	2.10X-4	2-May-96	Till/Gran
BH-RD-28	3.25	5.51	4.5	3.00X-3	2-May-96	Granite
BH-RD-29	3.1	5.28	2.5	3.20X-5	7-May-96	Granite
BH-RD-2A	6.25	8.09	2.4	2.60X-5	27-Feb-96	Granite
BH-RD-2B	2.7	4.2	1.1	1.21X-6	16-Feb-96	CT
BH-RD-3	1.86	3.83	4.5	3.20X-3	27-Feb-96	Granite
BH-RD-30	1.83	3.81	3.3	2.10X-4	2-May-96	Granite
BH-RD-31	6.53	9.04	3	9.40X-5	2-May-96	Granite
BH-RD-4	0.85	9.39	3.5	3.30X-4	27-Feb-96	Granite
BH-RD-5	5.2	7.15	3.7	5.10X-4	27-Feb-96	Granite
BH-RD-6	4	5.71	5	9.00X-3	27-Feb-96	Granite
BH-RD-7	5.38	7.6	3.9	8.90X-4	6-May-96	Granite
BH-RD-8	5.54	7.9	3.5	2.90X-4	27-Feb-96	Granite
BH-RD-9A	8.4	10.59	3.3	2.00X-4	27-Feb-96	Granite
BH-RD-9B	0.6	2.5	1.6	4.00X-6	6-May-96	CT
MW-10B	4.11	7.16	2.7	4.50X-5	21-Jun-96	Granite
MW-10C	11.78	15.31	3.7	5.00X-4	17-May-96	Granite
MW-11B	4.42	9.6	3	9.00X-5	21-Jun-96	Granite
MW-12B	4.32	8.99	3.7	5.30X-4	21-Jun-96	Granite
MW-13B	3	6.1	4.1	1.20X-3	24-May-96	Granite
MW-13C	9.14	13.4	3.8	6.20X-4	24-May-96	Granite
MW-14A	2.13	5.79	2.9	7.90X-5	28-Jun-96	Clay Till
MW-14B	16.45	19.66	3.4	2.40X-4	28-Jun-96	Granite
MW-15B	8.68	11.5	3.5	2.95X-4	27-Feb-96	Granite
MW-15C	15	17.98	4.6	4.00X-3	10-May-96	Granite
MW-16A	3.2	4.72	1.8	6.70X-6	20-Jun-96	Clay Till
MW-16B	7.62	10.67	3.7	4.50X-4	20-Jun-96	Granite
MW-17A	2.13	3.66	1.1	1.15X-6	20-Jun-96	Clay Till
MW-17B	5.18	8	3.6	4.30X-4	20-Jun-96	Granite
MW-18B	6.4	9.45	3.4	2.60X-4	20-Jun-96	Granite
MW-18C	14.73	18.7	3.5	3.30X-4	20-Jun-96	Granite

Hydraulic Conductivity

K.dbf

Hole ID	Depth From	Depth To	Normalized K	K	Date	Unit
MW-19A	1.66	3.16	5.3	2.00X-2	20-Jun-96	Sand
MW-19B	6.37	9.37	3.3	1.86X-4	20-Jun-96	Granite
MW-1B	3.96	6.96	3.2	1.70X-4	20-Jun-96	Granite
MW-20B	6.45	9.5	4	1.10X-3	20-Jun-96	Granite
MW-21B	1.09	3.45	5.5	3.30X-2	7-May-96	Granite
MW-22	0.61	2.74	3.5	3.50X-4	20-Jun-96	Sand/Cl
MW-23	2.29	3.81	4.6	4.20X-3	20-Jun-96	Sand
MW-2B	6.1	9.14	4.3	2.20X-3	7-May-96	Granite
MW-3A	0.91	3.2	4.4	2.50X-3	20-Jun-96	Sand Till
MW-3B	5.38	8.86	3.1	1.40X-4	7-May-96	Granite
MW-3C	12.14	15.18	1.3	2.20X-6	7-May-96	Granite
MW-4A	3.05	4.57	4.4	2.60X-3	20-Jun-96	Sand Till
MW-4B	9.29	12.2	4.5	3.30X-3	10-May-96	Granite
MW-5B	3.36	7.01	4.8	6.80X-3	10-May-96	Till/Gran
MW-5C	11.89	14.94	3.5	3.30X-4	20-Jun-96	Granite
MW-6A	4.57	6.1	3.8	6.10X-4	21-Jun-96	Till
MW-6B	9.14	12.34	4.7	5.20X-3	10-May-96	Granite
MW-7A	2.44	4.11	3.4	2.50X-4	21-Jun-96	Till
MW-7B	9.45	12.2	4.6	3.90X-3	10-May-96	Granite
MW-7C	17.22	20.7	3.2	1.50X-4	10-May-96	Granite
MW-8A	1.22	2.44	3.6	4.30X-4	21-Jun-96	Till
MW-8B	3.05	6.45	3.7	4.80X-4	10-May-96	Granite
MW-8C	9.3	12.34	3.7	4.50X-4	21-Jun-96	Granite
MW-95-1A	12.9	15.3	4.9	8.50X-3	28-Sep-96	Granite
MW-95-1B	2.7	4.2	5	1.10X-2	28-Sep-96	ST
MW-95-2A	9.7	12.6	4.7	5.60X-3	28-Sep-96	Granite
MW-95-2B	2.5	4.5	2.8	5.80X-5	28-Sep-96	CT
MW-95-3A	13.2	15.6	4.3	2.10X-3	28-Sep-96	Granite
MW-95-4A	8.5	13.8	4.1	1.30X-3	28-Sep-96	Granite
MW-95-4B	1.2	3.1	2.9	8.80X-5	28-Sep-96	ST
MW-9A	1.22	3.05	4.3	2.20X-3	21-Jun-96	Till
MW-9B	3.05	6.25	4	1.12X-3	10-May-96	Granite

WLevel.dbf Fields

Field	Description
HOLE_ID	Hole ID
LDATE	Date Level Taken
LEVEL	Water Level in m below grade

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
MW-95-1A	07/20/95	0.92
MW-95-1A	04/23/96	-0.03
MW-95-1A	05/22/96	0.15
MW-95-1A	06/19/96	0.33
MW-95-1A	07/24/96	0.27
MW-95-1B	07/20/95	1.51
MW-95-1B	02/07/96	1.01
MW-95-1B	04/23/96	0.7
MW-95-1B	05/22/96	0.88
MW-95-1B	06/19/96	0.82
MW-95-1B	07/24/96	0.75
MW-95-2A	07/20/95	0.5
MW-95-2A	02/07/96	0.41
MW-95-2A	04/23/96	0.12
MW-95-2A	05/22/96	0.13
MW-95-2A	06/19/96	0.56
MW-95-2A	07/24/96	0.5
MW-95-2B	07/20/95	1.33
MW-95-2B	02/07/96	0.28
MW-95-2B	04/23/96	0.39
MW-95-2B	05/22/96	0.34
MW-95-2B	06/19/96	0.47
MW-95-2B	07/24/96	0.33
MW-95-3A	07/20/95	1.07
MW-95-3A	04/23/96	-0.06
MW-95-3A	05/22/96	-0.12
MW-95-3A	06/19/96	0.12
MW-95-3A	07/24/96	0.1
MW-95-3B	07/20/95	9.39
MW-95-3B	02/07/96	2.16
MW-95-4A	07/20/95	1.74
MW-95-4A	02/07/96	0.28
MW-95-4A	04/23/96	0.01
MW-95-4A	05/22/96	0.01
MW-95-4A	06/19/96	0.58
MW-95-4A	07/24/96	0.28
MW-95-4B	07/20/95	1.7
MW-95-4B	02/07/96	0.68
MW-95-4B	04/23/96	0.3
MW-95-4B	05/22/96	0.33

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
MW-95-4B	06/19/96	0.66
MW-95-4B	07/24/96	0.5
BH-RD-1A	02/16/96	3.46
BH-RD-1A	02/26/96	3.31
BH-RD-1A	03/14/96	3.53
BH-RD-1A	04/23/96	3.29
BH-RD-1A	05/22/96	3.37
BH-RD-1A	06/19/96	3.59
BH-RD-1A	07/24/96	3.41
BH-RD-1B	02/16/96	0.934
BH-RD-1B	02/26/96	0.424
BH-RD-1B	03/14/96	0.59
BH-RD-1B	04/23/96	0.46
BH-RD-1B	05/22/96	0.304
BH-RD-1B	06/19/96	0.62
BH-RD-1B	07/24/96	0.55
BH-RD-2A	02/16/96	5.34
BH-RD-2A	02/26/96	5.23
BH-RD-2A	03/14/96	5.41
BH-RD-2A	04/23/96	5.18
BH-RD-2A	05/22/96	5.21
BH-RD-2A	06/19/96	5.37
BH-RD-2A	07/24/96	5.29
BH-RD-2B	02/16/96	3.38
BH-RD-2B	02/26/96	3.85
BH-RD-2B	03/14/96	3.88
BH-RD-2B	04/23/96	3.73
BH-RD-2B	05/22/96	3.76
BH-RD-2B	06/19/96	3.73
BH-RD-2B	07/24/96	3.77
BH-RD-3	02/16/96	1.31
BH-RD-3	02/26/96	1.03
BH-RD-3	03/14/96	1.2
BH-RD-3	04/23/96	0.63
BH-RD-3	05/22/96	0.85
BH-RD-3	06/19/96	1.45
BH-RD-3	07/24/96	0.99
BH-RD-4	02/16/96	0.85
BH-RD-4	02/26/96	0.82
BH-RD-5	02/16/96	1.84

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
BH-RD-5	02/26/96	1.65
BH-RD-5	03/14/96	1.79
BH-RD-5	04/23/96	1.54
BH-RD-5	05/22/96	1.74
BH-RD-5	06/19/96	2.14
BH-RD-5	07/24/96	2.01
BH-RD-6	02/16/96	0.25
BH-RD-6	02/26/96	0.11
BH-RD-6	03/14/96	0.17
BH-RD-6	04/23/96	0.36
BH-RD-6	05/22/96	0.03
BH-RD-6	06/19/96	0.25
BH-RD-6	07/24/96	0.08
BH-RD-7	03/14/96	1.31
BH-RD-7	04/23/96	0.97
BH-RD-7	05/22/96	1.21
BH-RD-7	06/19/96	1.4
BH-RD-7	07/24/96	1.19
BH-RD-8	02/26/96	2.03
BH-RD-8	03/14/96	2.67
BH-RD-8	04/23/96	2.57
BH-RD-8	05/22/96	2.56
BH-RD-8	06/19/96	3.03
BH-RD-8	07/24/96	2.69
BH-RD-9A	02/26/96	2.76
BH-RD-9A	03/14/96	3.04
BH-RD-9A	04/23/96	2.71
BH-RD-9A	05/22/96	2.76
BH-RD-9A	06/19/96	3.16
BH-RD-9A	07/24/96	2.82
BH-RD-9B	02/26/96	0.98
BH-RD-9B	03/14/96	1.46
BH-RD-9B	04/23/96	1.22
BH-RD-9B	05/22/96	1.1
BH-RD-9B	06/19/96	1.06
BH-RD-9B	07/24/96	1.34
BH-RD-10A	02/26/96	2.74
BH-RD-10A	03/14/96	3.16
BH-RD-10A	04/23/96	2.58
BH-RD-10A	05/22/96	2.56

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
BH-RD-10A	06/19/96	3.43
BH-RD-10A	07/24/96	2.91
BH-RD-10B	02/26/96	1.43
BH-RD-10B	03/14/96	1.16
BH-RD-10B	04/23/96	0.82
BH-RD-10B	05/22/96	0.85
BH-RD-10B	06/19/96	1.38
BH-RD-10B	07/24/96	0.96
BH-RD-11	02/26/96	0.45
BH-RD-11	03/14/96	0.54
BH-RD-11	04/23/96	0.35
BH-RD-11	05/22/96	0.31
BH-RD-11	06/19/96	0.79
BH-RD-11	07/24/96	0.57
BH-RD-12	02/26/96	1.68
BH-RD-12	03/14/96	2.09
BH-RD-12	04/23/96	1.58
BH-RD-12	05/22/96	1.69
BH-RD-12	06/19/96	2.39
BH-RD-12	07/24/96	1.88
BH-RD-13A	02/26/96	0.16
BH-RD-13A	04/23/96	0.05
BH-RD-13A	05/22/96	0.14
BH-RD-13A	06/19/96	0.44
BH-RD-13A	07/24/96	0.08
BH-RD-13B	02/26/96	0.26
BH-RD-13B	03/14/96	0.44
BH-RD-13B	04/23/96	0.22
BH-RD-13B	05/22/96	0.31
BH-RD-13B	06/19/96	0.36
BH-RD-13B	07/24/96	0.27
BH-RD-14A	04/23/96	-2.98
BH-RD-14A	05/22/96	-2.98
BH-RD-14A	06/19/96	-2.98
BH-RD-14A	07/24/96	-2.98
BH-RD-14B	04/23/96	0.53
BH-RD-14B	05/22/96	0.41
BH-RD-14B	07/24/96	0.33
BH-RD-15A	04/23/96	2.87
BH-RD-15A	05/22/96	2.87

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
BH-RD-15A	06/19/96	3.36
BH-RD-15A	07/24/96	3.48
BH-RD-15B	04/23/96	2.47
BH-RD-15B	05/22/96	2.16
BH-RD-15B	06/19/96	1.91
BH-RD-15B	07/24/96	2.22
BH-RD-16	04/23/96	0.23
BH-RD-16	05/22/96	0.26
BH-RD-16	06/19/96	1.08
BH-RD-16	07/24/96	0.59
BH-RD-17	04/23/96	0.31
BH-RD-17	05/22/96	0.34
BH-RD-17	06/19/96	0.65
BH-RD-17	07/24/96	0.54
BH-RD-18	04/23/96	0.34
BH-RD-18	05/22/96	0.4
BH-RD-18	06/19/96	0.92
BH-RD-18	07/24/96	0.63
BH-RD-19	04/23/96	0.45
BH-RD-19	05/22/96	0.5
BH-RD-19	06/19/96	2.23
BH-RD-19	07/24/96	1.3
BH-RD-20	04/23/96	0.82
BH-RD-20	05/22/96	0.9
BH-RD-20	06/19/96	1.31
BH-RD-20	07/24/96	1.04
BH-RD-21	04/23/96	0.59
BH-RD-21	05/22/96	0.59
BH-RD-21	06/19/96	1
BH-RD-21	07/24/96	0.66
BH-RD-22	04/23/96	0.22
BH-RD-22	05/22/96	0.27
BH-RD-22	06/19/96	0.41
BH-RD-22	07/24/96	0.31
BH-RD-23	04/23/96	0.17
BH-RD-23	05/22/96	0.21
BH-RD-23	06/19/96	0.3
BH-RD-23	07/24/96	0.24
BH-RD-24	04/23/96	0.66
BH-RD-24	05/22/96	0.65

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
BH-RD-24	06/19/96	0.8
BH-RD-24	07/24/96	0.64
BH-RD-25	05/22/96	0.09
BH-RD-25	06/19/96	0.39
BH-RD-25	07/24/96	0.18
BH-RD-26	04/23/96	1.56
BH-RD-26	05/22/96	1.72
BH-RD-26	06/19/96	1.88
BH-RD-26	07/24/96	1.79
BH-RD-27	04/23/96	0.58
BH-RD-27	05/22/96	0.89
BH-RD-27	06/19/96	1.29
BH-RD-27	07/24/96	1.52
BH-RD-28	05/22/96	0.47
BH-RD-28	06/19/96	0.71
BH-RD-28	07/24/96	0.52
BH-RD-29	05/22/96	0.7
BH-RD-29	06/19/96	1.1
BH-RD-29	07/24/96	0.79
BH-RD-30	05/22/96	0.64
BH-RD-30	06/19/96	0.87
BH-RD-30	07/24/96	0.69
BH-RD-31	05/22/96	0.59
BH-RD-31	06/19/96	0.83
BH-RD-31	07/24/96	0.75
MW-1B	06/19/96	2.16
MW-1B	07/24/96	1.62
MW-2B	05/22/96	3.39
MW-2B	06/19/96	4.03
MW-2B	07/24/96	3.88
MW-3A	06/19/96	0.24
MW-3A	07/24/96	0.21
MW-3B	05/22/96	-0.18
MW-3B	06/19/96	0.12
MW-3B	07/24/96	-0.01
MW-3C	05/22/96	-0.48
MW-3C	06/19/96	-0.45
MW-3C	07/24/96	-0.46
MW-4A	06/19/96	0.37
MW-4A	07/24/96	0.27

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
MW-4B	05/22/96	0.22
MW-4B	06/19/96	0.27
MW-4B	07/24/96	0.19
MW-5A	06/19/96	2.19
MW-5A	07/24/96	1.85
MW-5B	05/22/96	2.04
MW-5B	06/19/96	2.2
MW-5B	07/24/96	1.91
MW-5C	06/19/96	2.2
MW-5C	07/24/96	1.92
MW-6A	06/19/96	3.43
MW-6A	07/24/96	3.22
MW-6B	05/22/96	3.27
MW-6B	06/19/96	3.58
MW-6B	07/24/96	3.39
MW-7A	06/19/96	0.32
MW-7A	07/24/96	0.27
MW-7B	05/22/96	0.18
MW-7B	06/19/96	0.08
MW-7B	07/24/96	0.04
MW-7C	05/22/96	0.27
MW-7C	06/19/96	0.4
MW-7C	07/24/96	0.31
MW-8A	06/19/96	0.22
MW-8A	07/24/96	0.18
MW-8B	05/22/96	0.18
MW-8B	07/24/96	0.62
MW-8C	06/19/96	-0.56
MW-8C	07/24/96	-0.56
MW-9A	06/19/96	0.76
MW-9A	07/24/96	0.63
MW-9B	05/22/96	0.13
MW-9B	06/19/96	1.31
MW-9B	07/24/96	0.16
MW-10B	06/19/96	1.05
MW-10B	07/24/96	0.89
MW-10C	05/22/96	1.13
MW-10C	06/19/96	1.35
MW-10C	07/24/96	1.21
MW-11B	06/19/96	0.91

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
MW-11B	07/24/96	0.74
MW-12B	06/19/96	1.36
MW-12B	07/24/96	0.29
MW-13B	05/22/96	0.03
MW-13B	06/19/96	0.14
MW-13B	07/24/96	0.05
MW-13C	05/22/96	0.17
MW-13C	06/19/96	0.34
MW-13C	07/24/96	0.25
MW-14A	06/19/96	0.8
MW-14A	07/24/96	0.56
MW-14B	06/19/96	1.3
MW-14B	07/24/96	1.26
MW-15A	05/22/96	4.12
MW-15A	06/19/96	2.66
MW-15A	07/24/96	3.05
MW-15B	02/26/96	5.4
MW-15B	05/22/96	5.4
MW-15B	06/19/96	5.67
MW-15B	07/24/96	5.87
MW-15C	05/22/96	5.58
MW-15C	06/19/96	5.72
MW-15C	07/24/96	5.91
MW-16A	06/19/96	2.43
MW-16A	07/24/96	2.15
MW-16B	06/19/96	2.64
MW-16B	07/24/96	2.49
MW-17A	06/19/96	1.97
MW-17A	07/24/96	1.14
MW-17B	06/19/96	2.14
MW-17B	07/24/96	1.7
MW-18B	06/19/96	0.7
MW-18B	07/24/96	0.37
MW-18C	05/22/96	1.05
MW-18C	06/19/96	1.37
MW-18C	07/24/96	0.83
MW-19A	06/19/96	1.84
MW-19A	07/24/96	1.99
MW-19B	06/19/96	0.61
MW-19B	07/24/96	1.89

Wlevel.dbf

Hole ID	Level Date	Level (m below grade)
MW-20A	06/19/96	1.89
MW-20A	07/24/96	1.76
MW-20B	06/19/96	1.72
MW-20B	07/24/96	1.65
MW-21	03/14/96	1.91
MW-21	05/22/96	1.58
MW-21	06/19/96	2.08
MW-21	07/24/96	1.86
MW-22	06/19/96	0.24
MW-22	07/24/96	0.13
MW-23	06/19/96	0.6
MW-23	07/24/96	0.49

GW608.dbf, SS608.dbf, and SW608.dbf Fields

Field	Description
hole_id	Hole ID
CDate	Sample Date
pcb	Polychlorinated Biphenyl
abhc	Alpha-BHC
lindan	Lindane
heptcl	Heptachlor
aldrin	Aldrin
heptcle	Heptachlor Epoxide
aendos	Alpha Endosulfan
ppdde	Para-Para-DDE
endrin	Endrin
betaes	Beta-Endosulfan
ppddd	Para-Para-DDD
opddt	Ortho-Para-DDT
ppddt	Para-Para-DDT
mirex	Mirex
chlord	Chlordane
dieldrin	Dieldrin
moc	Methoxychlor
hcb	Hexachlorobenzene
bbhc	Beta-BHC
dbhc	Delta-BHC
ealdeh	Endrin Aldehyde
eketone	Endrin Ketone
opddd	Ortho-Para-DDD
opdde	Ortho-Para-DDE
toxap	Toxaphene
endoss	Endosulfan Sulfate
totpest	Total Pesticides

Groundwater EPA 608
GW608.dbf

Hole ID	Sample Date	Polychlorinated Biphenyl	Alpha-BHC	Lindane	Heptachlor	Aldrin	Heptachlor Epoxide	Alpha Endosulfan	Para-Para-DDE	Endrin	Beta-Endosulfan	Para-Para-DDD	Ortho-Para-DDT	Para-Para-DDT	Mirex	Chlordane	Dieldrin	Methoxychlor	Hexachlorobenzene	Beta-BHC	Delta-BHC	Endrin Aldehyde	Endrin Ketone	Ortho-Para-DDD	Ortho-Para-DDE	Toxaphene	Endosulfan Sulfate	Total Pesticides
MW-3B	07-02-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5A	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5B	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5C	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7A	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7B	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7C	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8A	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8B	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8C	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-10B	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-14B	07-04-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-18B	07-04-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20A	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20B	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20D	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Groundwater EPA 608 Units

Polychlorinated Bipheny	ppb
Alpha-BHC	ppb
Lindane	ppb
Heptachlor	ppb
Aldrin	ppb
Heptachlor Epoxide	ppb
Alpha Endosulfan	ppb
Para-Para-DDE	ppb
Endrin	ppb
Beta-Endosulfan	ppb
Para-Para-DDD	ppb
Ortho-Para-DDT	ppb
Para-Para-DDT	ppb
Mirex	ppb
Chlordane	ppb
Dieldrin	ppb
Methoxychlor	ppb
Hexachlorobenzene	ppb
Beta-BHC	ppb
Delta-BHC	ppb
Endrin Aldehyde	ppb
Endrin Ketone	ppb
Ortho-Para-DDD	ppb
Ortho-Para-DDE	ppb
Toxaphene	ppb
Endosulfan Sulfate	ppb
Total Pesticides	ppb

Stream Sediment EPA 608
SS608.dbf

Hole ID	Sample Date	Polychlorinated Biphenyl	Alpha-BHC	Lindane	Heptachlor	Aldrin	Heptachlor Epoxide	Alpha Endosulfan	Para-Para-DDE	Endrin	Beta-Endosulfan	Para-Para-DDD	Ortho-Para-DDT	Para-Para-DDT	Mirex	Chlordane	Dieldrin	Methoxychlor	Hexachlorobenzene	Beta-BHC	Delta-BHC	Endrin Aldehyde	Endrin Ketone	Ortho-Para-DDD	Ortho-Para-DDE	Toxaphene	Endosulfan Sulfate	Total Pesticides
SW1	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW2	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW4	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Stream Sediment EPA 608 Units

Polychlorinated Biphe	ppm
Alpha-BHC	ppm
Lindane	ppm
Heptachlor	ppm
Aldrin	ppm
Heptachlor Epoxide	ppm
Alpha Endosulfan	ppm
Para-Para-DDE	ppm
Endrin	ppm
Beta-Endosulfan	ppm
Para-Para-DDD	ppm
Ortho-Para-DDT	ppm
Para-Para-DDT	ppm
Mirex	ppm
Chlordane	ppm
Dieldrin	ppm
Methoxychlor	ppm
Hexachlorobenzene	ppm
Beta-BHC	ppm
Delta-BHC	ppm
Endrin Aldehyde	ppm
Endrin Ketone	ppm
Ortho-Para-DDD	ppm
Ortho-Para-DDE	ppm
Toxaphene	ppm
Endosulfan Sulfate	ppm
Total Pesticides	ppm

Stream Water EPA 608
SW608.dbf

Hole ID	Sample Date	Polychlorinated Biphenyl	Alpha-BHC	Lindane	Heptachlor	Aldrin	Heptachlor Epoxide	Alpha Endosulfan	Para-Para-DDE	Endrin	Beta-Endosulfan	Para-Para-DDD	Ortho-Para-DDT	Para-Para-DDT	Mirex	Chlordane	Dieldrin	Methoxychlor	Hexachlorobenzene	Beta-BHC	Delta-BHC	Endrin Aldehyde	Endrin Ketone	Ortho-Para-DDD	Ortho-Para-DDE	Toxaphene	Endosulfan Sulfate	Total Pesticides
SW1	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW3	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW5	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Stream Water EPA 608 Units

Polychlorinated Biphen	ppb
Alpha-BHC	ppb
Lindane	ppb
Heptachlor	ppb
Aldrin	ppb
Heptachlor Epoxide	ppb
Alpha Endosulfan	ppb
Para-Para-DDE	ppb
Endrin	ppb
Beta-Endosulfan	ppb
Para-Para-DDD	ppb
Ortho-Para-DDT	ppb
Para-Para-DDT	ppb
Mirex	ppb
Chlordane	ppb
Dieldrin	ppb
Methoxychlor	ppb
Hexachlorobenzene	ppb
Beta-BHC	ppb
Delta-BHC	ppb
Endrin Aldehyde	ppb
Endrin Ketone	ppb
Ortho-Para-DDD	ppb
Ortho-Para-DDE	ppb
Toxaphene	ppb
Endosulfan Sulfate	ppb
Total Pesticides	ppb

gwmust.dbf

Hole ID	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	BTEX	C6-C10	C11-C20	C6-C32	Total Hydrocarbons	Resemblance
MW-3B	07-02-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-4B	07-04-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-5A	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-5B	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-5C	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-7A	06-27-96	nd	nd	nd	nd	nd	nd	nd	0.130	0.130	Lube oil fraction
MW-7B	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-7C	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-8A	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-8B	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-8C	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-8C	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-10B	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-13B	07-04-96	nd	nd	nd	nd	nd	nd	0.263	nd	0.263	Possible weathered fuel oil fraction
MW-13C	07-04-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-14B	07-04-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-18B	07-04-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-20A	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-20B	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-20B	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
MW-22	07-04-96	nd	0.001	nd	nd	nd	nd	nd	nd	nd	
MW-23	07-04-96	nd	nd	nd	nd	nd	0.010	nd	nd	0.010	Taces gasoline fraction

swmust.dbf

Hole ID	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	BTEX	C6-C10	C11-C20	C6-C32	Total Hydrocarbons	Resemblance
SW-1	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
SW-3	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	
SW-5	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	

ssmust.dbf

Hole ID	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	BTEX	C6-C10	C11-C20	C6-C32	Total Hydrocarbons	Resemblance
SW-1	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	

Gwmust.dbf and swmust.dbf Units

Parameter	Units
Benzene	mg/L
Toluene	mg/L
Ethyl Benzene	mg/L
Xylene	mg/L
BTEX	mg/L
C6-C10	mg/L
C11-C20	mg/L
C6-C32	mg/L
Total Hydrocarbons	mg/L

ssmust.dbf Units

Parameter	Units
Benzene	mg/Kg
Toluene	mg/Kg
Ethyl Benzene	mg/Kg
Xylene	mg/Kg
BTEX	mg/Kg
C6-C10	mg/Kg
C11-C20	mg/Kg
C6-C32	mg/Kg
Total Hydrocarbons	mg/Kg

GW624.dbf, SW624.dbf, and SS624.dbf Fields

Field	Description
hole_id	Hole ID
cDate	Sample Date
111tri	1,1,1-Trichloroethane
1122te	1,1,2,2-Tetrachloroethane
112tri	1,1,2-Trichloroethane
11dia	1,1-Dichloroethane
11die	1,1-Dichloroethene
12dib	1,2-dibromoethane
12dicb	1,2-Dichlorobenzene
12dice	1,2-Dichloroethane
12dicp	1,2-Dichloropropane
13dicb	1,3-Dichlorobenzene
14dicb	1,4-Dichlorobenzene
benz	Benzene
brdcm	Bromodichloromethane
brf	Bromoform
brm	Bromomethane
Ctet	Carbon Tetrachloride
cb	Chlorobenzene
ce	Chloroethane
cf	Chloroform
cm	Chloromethane
c12dce	cis-1,2-Dichloroethene
c13dcp	cis-1,3-Dichloropropene
dbmcm	Dibromochloromethane
mc	Methylene Chloride
eb	Ethyl Benzene
mpx	m,p-xylenes
ox	o-xylene
sty	Styrene
tetce	Tetrachloroethene
tol	Toluene
t12dce	trans-1,2-Dichloroethene
t13dcp	trans-1,3-dichloropropene
trice	Trichloroethene
tricfm	Trichlorofluoromethane
vncl	Vinyl Chloride
xsurdce	x-surrogate STD-1,2-Dichloroethane-d
xsurbfb	x-surrogate STD-4-Bromofluorobenzen
xsurtol	x-surrogate STD-Toluene-d8

Groundwater EPA 624
GW624.dbf

Hole ID	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Methylene Chloride	Ethyl Benzene	m,p-xylenes	o-xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	x-surrogate STD-1,2-Dichloroethane-d4	x-surrogate STD-4-Bromofluorobenzene	x-surrogate STD-Toluene-d8
MW-3B	07-02-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-5A	06-27-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	1.3	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	98.6	101	97.7
MW-5A	06-27-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	1.3	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	98	102	97.9
MW-5B	06-27-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-5C	06-27-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	98.9	101	101
MW-7A	06-27-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-7B	06-27-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	97.8	102	99.1
MW-7C	06-27-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	97.4	102	102
MW-8A	07-03-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	TR	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-8A	07-03-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-8B	07-03-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-8C	07-03-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-10B	07-03-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-14B	07-04-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	96.5	101	100
MW-18B	07-04-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	97.4	101	99.7
MW-20A	06-28-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-20A	06-28-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-20B	06-28-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			
MW-20B	06-28-96	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu	pu			

Groundwater EPA 624 Units

1,1,1-Trichloroethane	ppb
1,1,2,2-Tetrachloroetha	ppb
1,1,2-Trichloroethane	ppb
1,1-Dichloroethane	ppb
1,1-Dichloroethene	ppb
1,2-dibromoethane	ppb
1,2-Dichlorobenzene	ppb
1,2-Dichloroethane	ppb
1,2-Dichloropropane	ppb
1,3-Dichlorobenzene	ppb
1,4-Dichlorobenzene	ppb
Benzene	ppb
Bromodichloromethane	ppb
Bromoform	ppb
Bromomethane	ppb
Carbon Tetrachloride	ppb
Chlorobenzene	ppb
Chloroethane	ppb
Chloroform	ppb
Chloromethane	ppb
cis-1,2-Dichloroethene	ppb
cis-1,3-Dichloropropene	ppb
Dibromochloromethane	ppb
Methylene Chloride	ppb
Ethyl Benzene	ppb
m,p-xylenes	ppb
o-xylene	ppb
Styrene	ppb
Tetrachloroethene	ppb
Toluene	ppb
trans-1,2-Dichloroethen	ppb
trans-1,3-dichloropropen	ppb
Trichloroethene	ppb
Trichlorofluoromethane	ppb
Vinyl Chloride	ppb

Stream Sediment EPA 624
SS624.dbf

Hole ID	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Methylene Chloride	Ethyl Benzene	m,p-xylenes	o-xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride
SW1	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW2	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW4	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Stream Sediment EPA 624 Units

1,1,1-Trichloroethane	ng/g
1,1,2,2-Tetrachloroetha	ng/g
1,1,2-Trichloroethane	ng/g
1,1-Dichloroethane	ng/g
1,1-Dichloroethene	ng/g
1,2-dibromoethane	ng/g
1,2-Dichlorobenzene	ng/g
1,2-Dichloroethane	ng/g
1,2-Dichloropropane	ng/g
1,3-Dichlorobenzene	ng/g
1,4-Dichlorobenzene	ng/g
Benzene	ng/g
Bromodichloromethane	ng/g
Bromoform	ng/g
Bromomethane	ng/g
Carbon Tetrachloride	ng/g
Chlorobenzene	ng/g
Chloroethane	ng/g
Chloroform	ng/g
Chloromethane	ng/g
cis-1,2-Dichloroethene	ng/g
cis-1,3-Dichloropropene	ng/g
Dibromochloromethane	ng/g
Methylene Chloride	ng/g
Ethyl Benzene	ng/g
m,p-xylenes	ng/g
o-xylene	ng/g
Styrene	ng/g
Tetrachloroethene	ng/g
Toluene	ng/g
trans-1,2-Dichloroethen	ng/g
trans-1,3-dichloroprope	ng/g
Trichloroethene	ng/g
Trichlorofluoromethane	ng/g
Vinyl Chloride	ng/g

Stream Water EPA 624
SW624.dbf

Hole ID	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Methylene Chloride	Ethyl Benzene	m,p-xylenes	o-xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride
SW1	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW1	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW3	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW5	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Stream Water EPA 624 Units	
1,1,1-Trichloroethane	ppb
1,1,2,2-Tetrachloroetha	ppb
1,1,2-Trichloroethane	ppb
1,1-Dichloroethane	ppb
1,1-Dichloroethene	ppb
1,2-dibromoethane	ppb
1,2-Dichlorobenzene	ppb
1,2-Dichloroethane	ppb
1,2-Dichloropropane	ppb
1,3-Dichlorobenzene	ppb
1,4-Dichlorobenzene	ppb
Benzene	ppb
Bromodichloromethane	ppb
Bromoform	ppb
Bromomethane	ppb
Carbon Tetrachloride	ppb
Chlorobenzene	ppb
Chloroethane	ppb
Chloroform	ppb
Chloromethane	ppb
cis-1,2-Dichloroethene	ppb
cis-1,3-Dichloropropen	ppb
Dibromochloromethane	ppb
Methylene Chloride	ppb
Ethyl Benzene	ppb
m,p-xylenes	ppb
o-xylene	ppb
Styrene	ppb
Tetrachloroethene	ppb
Toluene	ppb
trans-1,2-Dichloroethen	ppb
trans-1,3-dichloroprope	ppb
Trichloroethene	ppb
Trichlorofluoromethane	ppb
Vinyl Chloride	ppb

GW625.dbf, SW625.dbf, and SS625.dbf Fields

Field	Description
hole_id	Hole ID
CDate	Sample Date
124tricb	1,2,4-Trichlorobenzene
12dcb	1,2-Dichlorobenzene
12dph	1,2-Diphenyl Hydrazine
13dcb	1,3-Dichlorobenzene
14dcb	1,4-Dichlorobenzene
1cnt	1-Chloronaphthalene
1mnt	1-Methylnaphthalene
numtet	2,3,4,5/2,3,4,6-Tetrachlorophenol
234tcp	2,3,4-Trichlorophenol
2356tcp	2,3,5,6-Tetrachlorophenol
235tcp	2,3,5-Trichlorophenol
245tcp	2,4,5-Trichlorophenol
246tcp	2,4,6-Trichlorophenol
24dcp	2,4-Dichlorophenol
24dmp	2,4-Dimethylphenol
24dnp	2,4-Dinitrophenol
24dnt	2,4-Dinitrotoluene
26dcp	2,6-Dichlorophenol
26dnt	2,6-Dinitrotoluene
2cnt	2-Chloronaphthalene
2cp	2-Chlorophenol
2mnt	2-Methylnaphthalene
2np	2-Nitrophenol
33dcb	3,3-Dichlorobenzidine
46dnmp	4,6-Dinitro-2-methylphenol (Sinox)
4bppe	4-Bromophenyl-phenyl Ether
4cppe	4-Chlorophenyl-phenyl Ether
4np	4-Nitrophenol
5na	5-Nitro-acenaphthene
an	Acenaphthene
ant	Acenaphthylene
anth	Anthracene
benzi	Benzidine
benzoat	Benzo[a]Aanthracene
benzop	Benzo[a]Pyrene
benzof	Benzo[b]Fluoranthene
benzope	Benzo[ghi]Perylene
benzofa	Benzo[k]Fluoanthrene
biph	Biphenyl
bmeth	bis(2-chlorethoxy) Methane
bethe	bis(2-chloroethyl)Ether
bethp	bis(2-chloroisopropyl)Ether
bphth	bis(2-ethylhexyl)Phthalate
bbpt	Butlybenzylphthalate
camp	Camphene
chrys	Chrysene
dnbt	Di-N-Butyl Phthalate
dnop	Di-N-Octyl Phthalate
dba	Dibenzo[a,h]Anthracene
dep	Diethyl Phthalate
dmp	Dimethyl Phthalate

GW625.dbf, SW625.dbf, and SS625.dbf Fields

Field	Description
fluora	Fluoranthene
fluore	Fluorene
hcbenz	Hexachlorobenzene
hcbut	Hexachlorobutadiene
hccp	Hexachloocyclopentadiene
hce	Hexachlorethane
ipyr	Indeno(1,2,3-cd)Pyrene
indo	Indole
isop	Isophorene
mpcres	m,p-Cresol
nndnp	N-Nitroso-di-N-Propylamine
nndd	N-Nitroso-diphenylamine/Diphenylamine
napth	Naphthalene
nitrbenz	Nitrobenzene
ocresol	o-Cresol
pcmc	p-Chloro-m-cresol(4-chloro,3-methylphenol)
pcp	Pentachlorophenol
peryl	Perylene
phenan	Phenanthrene
phenol	Phenol
pyrene	Pyrene
xsurtbp	x-surrogate STD-2,4,6-Tribromophenol
xsurfbp	x-surrogate STD-2-Fluorobiphenyl
xsurfp	x-surrogate STD-2-Fluorophenol
xsurant	x-surrogate STD-Acenaphthylene-d8
xsurat	x-surrogate STD-Anthracene-d10
xsurnb	x-surrogate STD-Nitrobenzene-d5
xsurtp	x-surrogate STD-p-Terphenyl-d14
xsurphen	x-surrogate STD-Phenol-d5
xsurpyr	x-surrogate STD-Pyrene-d10

Groundwater EPA 625
GW625.dbf

Hole ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenyl Hydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Chloronaphthalene	1-Methylnaphthalene	2,3,4,5/2,3,4,6-Tetrachlorophenol	2,3,4-Trichlorophenol	2,3,5,6-Tetrachlorophenol	2,3,5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Nitrophenol	3,3-Dichlorobenzidine	4,6-Dinitro-2-methylphenol (Sinox)	4-Bromophenyl-phenyl Ether	4-Chlorophenyl-phenyl Ether
MW-3B	07-02-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5A	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5A	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5B	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5C	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7A	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7B	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7C	06-27-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8A	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8A	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8B	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8C	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-10B	07-03-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-14B	07-04-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-18B	07-04-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20A	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20B	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20B	06-28-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Groundwater
GW625.dbf

Hole ID	4-Nitrophenol	5-Nitro-acenaphthene	Acenaphthene	Acenaphthylene	Anthracene	Benzidine	Benzo[a]Aanthracene	Benzo[a]Pyrene	Benzo[b]Fluoranthene	Benzo[ghi]Perylene	Benzo[k]Fluoanthrene	Biphenyl	bis(2-chlorethoxy) Methane	bis(2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butlybenzylphthalate	Camphene	Chrysene	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Dibenzo[a,h]Anthracene	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachloocyclopentadiene
MW-3B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.1	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-5C	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-7C	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	1.1	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-8C	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-10B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-14B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.1	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-18B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	1	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW-20B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd

Groundwa
GW625.db

Hole ID	Indeno(1,2,3-cd)Pyrene	Indole	Isophorene	m,p-Cresol	N-Nitroso-di-N-Propylamine	N-Nitroso-diphenylamine/Diphenyla	Naphthalene	Nitrobenzene	o-Cresol	p-Chloro-m-cresol(4-chloro,3-methyl	Pentachlorophenol	Perylene	Phenanthrene	Phenol	Pyrene	x-surrogate STD-2,4,6-Tribromophen	x-surrogate STD-2-Fluorobiphenyl	x-surrogate STD-2-Fluorophenol	x-surrogate STD-Acenaphthylene-d8	x-surrogate STD-Anthracene-d10	x-surrogate STD-Nitrobenzene-d5	x-surrogate STD-p-Terphenyl-d14	x-surrogate STD-Phenol-d5	x-surrogate STD-Pyrene-d10
MW-3B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	83	81	11	81	94	66	100	12	91
MW-5A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	104	68	14	72	95	57	103	14	98
MW-5A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	119	91	21	95	98	78	105	24	101
MW-5B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	83	76	23	76	98	78	104	23	99
MW-5C	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	84	72	17	73	96	68	101	17	96
MW-7A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	82	70	21	75	89	75	91	20	91
MW-7B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	85	93	17	89	99	82	103	18	98
MW-7C	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	80	90	20	87	97	84	101	20	96
MW-8A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	84	81	34	79	92	83	95	28	97
MW-8A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	91	81	33	80	94	84	96	28	97
MW-8B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	84	89	40	85	92	88	98	31	96
MW-8C	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	81	86	32	81	83	84	94	27	96
MW-10B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	82	64	24	65	88	63	92	21	94
MW-14B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	89	77	28	75	93	80	96	25	100
MW-18B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	85	78	25	73	86	77	93	25	96
MW-20A	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	87	87	17	85	96	75	99	18	93
MW-20B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	84	85	13	84	96	71	103	15	98
MW-20B	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	83	84	15	83	98	70	104	15	99

Groundwater 625 Units

1,2,4-Trichlorobenzene	ppb
1,2-Dichlorobenzene	ppb
1,2-Diphenyl Hydrazine	ppb
1,3-Dichlorobenzene	ppb
1,4-Dichlorobenzene	ppb
1-Chloronaphthalene	ppb
1-Methylnaphthalene	ppb
2,3,4,5/2,3,4,6-Tetrachlorophe	ppb
2,3,4-Trichlorophenol	ppb
2,3,5,6-Tetrachlorophenol	ppb
2,3,5-Trichlorophenol	ppb
2,4,5-Trichlorophenol	ppb
2,4,6-Trichlorophenol	ppb
2,4-Dichlorophenol	ppb
2,4-Dimethylphenol	ppb
2,4-Dinitrophenol	ppb
2,4-Dinitrotoluene	ppb
2,6-Dichlorophenol	ppb
2,6-Dinitrotoluene	ppb
2-Chloronaphthalene	ppb
2-Chlorophenol	ppb
2-Methylnaphthalene	ppb
2-Nitrophenol	ppb
3,3-Dichlorobenzidine	ppb
4,6-Dinitro-2-methylphenol (Si	ppb
4-Bromophenyl-phenyl Ether	ppb
4-Chlorophenyl-phenyl Ether	ppb
4-Nitrophenol	ppb
5-Nitro-acenaphthene	ppb
Acenaphthene	ppb
Acenaphthylene	ppb
Anthracene	ppb
Benzidine	ppb
Benzo[a]Aanthracene	ppb
Benzo[a]Pyrene	ppb
Benzo[b]Fluoranthene	ppb
Benzo[ghi]Perylene	ppb
Benzo[k]Fluoanthrene	ppb
Biphenyl	ppb
bis(2-chlorethoxy) Methane	ppb
bis(2-chloroethyl)Ether	ppb
bis(2-chloroisopropyl)Ether	ppb
bis(2-ethylhexyl)Phthalate	ppb
Butlybenzylphthalate	ppb
Camphene	ppb
Chrysene	ppb
Di-N-Butyl Phthalate	ppb

Groundwater 625 Units

Di-N-Octyl Phthalate	ppb
Dibenzo[a,h]Anthracene	ppb
Diethyl Phthalate	ppb
Dimethyl Phthalate	ppb
Fluoranthene	ppb
Fluorene	ppb
Hexachlorobenzene	ppb
Hexachlorobutadiene	ppb
Hexachloocyclopentadiene	ppb
Hexachlorethane	ppb
Indeno(1,2,3-cd)Pyrene	ppb
Indole	ppb
Isophorene	ppb
m,p-Cresol	ppb
N-Nitroso-di-N-Propylamine	ppb
N-Nitroso-diphenylamine/Diph	ppb
Naphthalene	ppb
Nitrobenzene	ppb
o-Cresol	ppb
p-Chloro-m-cresol(4-chloro,3-	ppb
Pentachlorophenol	ppb
Perylene	ppb
Phenanthrene	ppb
Phenol	ppb
Pyrene	ppb
x-surrogate STD-2,4,6-Tribrom	%
x-surrogate STD-2-Fluorobiph	%
x-surrogate STD-2-Fluorophen	%
x-surrogate STD-Acenaphthyle	%
x-surrogate STD-Anthracene-d	%
x-surrogate STD-Nitrobenzene	%
x-surrogate STD-p-Terphenyl-	%
x-surrogate STD-Phenol-d5	%
x-surrogate STD-Pyrene-d10	%

Stream Sediment EPA 625
SS625.dbf

Hole ID	Sample Date
SW1	07-11-96
SW1	07-11-96
1,2,4-Trichlorobenzene	nd
1,2-Dichlorobenzene	nd
1,2-Diphenyl Hydrazine	nd
1,3-Dichlorobenzene	nd
1,4-Dichlorobenzene	0.07
1-Chloronaphthalene	nd
1-Methylnaphthalene	nd
2,3,4,5/2,3,4,6-Tetrachlorophenol	nd
2,3,4-Trichlorophenol	nd
2,3,5,6-Tetrachlorophenol	nd
2,3,5-Trichlorophenol	nd
2,4,5-Trichlorophenol	nd
2,4,6-Trichlorophenol	nd
2,4-Dichlorophenol	nd
2,4-Dimethylphenol	nd
2,4-Dinitrophenol	nd
2,4-Dinitrotoluene	nd
2,6-Dichlorophenol	nd
2,6-Dinitrotoluene	nd
2-Chloronaphthalene	nd
2-Chlorophenol	nd
2-Methylnaphthalene	nd
2-Nitrophenol	nd
3,3-Dichlorobenzidine	nd
4,6-Dinitro-2-methylphenol (Sinox)	nd
4-Bromophenyl-phenyl Ether	nd
4-Chlorophenyl-phenyl Ether	nd

Strea
SS62

Hole ID	SW1	SW1
4-Nitrophenol	nd	nd
5-Nitro-acenaphthene	nd	nd
Acenaphthene	nd	nd
Acenaphthylene	nd	nd
Anthracene	nd	nd
Benzidine	0.15	0.12
Benzo[a]Anthracene	nd	nd
Benzo[a]Pyrene	nd	nd
Benzo[b]Fluoranthene	nd	nd
Benzo[ghi]Perylene	nd	nd
Benzo[k]Fluoranthrene	nd	nd
Biphenyl	nd	nd
bis(2-chloroethoxy) Methane	nd	nd
bis(2-chloroethyl)Ether	nd	nd
bis(2-chloroisopropyl)Ether	nd	nd
bis(2-ethylhexyl)Phthalate	TR	TR
Butylbenzylphthalate	nd	nd
Camphene	nd	nd
Chrysene	nd	nd
Di-N-Butyl Phthalate	0.87	0.6
Di-N-Octyl Phthalate	nd	nd
Dibenzo[a,h]Anthracene	nd	nd
Diethyl Phthalate	TR	nd
Dimethyl Phthalate	nd	nd
Fluoranthene	nd	nd
Fluorene	nd	nd
Hexachlorobenzene	nd	nd
Hexachlorobutadiene	nd	nd

Strea
SS62

Hole ID	SW1	SW1
Hexachlorocyclopentadiene	nd	nd
Hexachlorethane	nd	nd
Indeno(1,2,3-cd)Pyrene	nd	nd
Indole	nd	nd
Isophorene	nd	nd
m,p-Cresol	nd	nd
N-Nitroso-di-N-Propylamine	nd	nd
N-Nitroso-diphenylamine/Diphenylamine	nd	nd
Naphthalene	nd	nd
Nitrobenzene	nd	nd
o-Cresol	nd	nd
p-Chloro-m-cresol(4-chloro,3-methylphenol)	nd	nd
Pentachlorophenol	nd	nd
Perylene	nd	nd
Phenanthrene	nd	nd
Phenol	nd	TR
Pyrene	nd	nd
x-surrogate STD-2,4,6-Tribromophenol	101	104
x-surrogate STD-2-Fluorobiphenyl	92.3	93.4
x-surrogate STD-2-Fluorophenol	125	117
x-surrogate STD-Acenaphthylene-d8	90.6	90.9
x-surrogate STD-Anthracene-d10	96	92.6
x-surrogate STD-Nitrobenzene-d5	89.7	91.5
x-surrogate STD-p-Terphenyl-d14	108	100
x-surrogate STD-Phenol-d5	72.6	67.5
x-surrogate STD-Pyrene-d10	110	108

Stream Sediment 625 Units

1,2,4-Trichlorobenzene	ppm
1,2-Dichlorobenzene	ppm
1,2-Diphenyl Hydrazine	ppm
1,3-Dichlorobenzene	ppm
1,4-Dichlorobenzene	ppm
1-Chloronaphthalene	ppm
1-Methylnaphthalene	ppm
2,3,4,5/2,3,4,6-Tetrachlorophe	ppm
2,3,4-Trichlorophenol	ppm
2,3,5,6-Tetrachlorophenol	ppm
2,3,5-Trichlorophenol	ppm
2,4,5-Trichlorophenol	ppm
2,4,6-Trichlorophenol	ppm
2,4-Dichlorophenol	ppm
2,4-Dimethylphenol	ppm
2,4-Dinitrophenol	ppm
2,4-Dinitrotoluene	ppm
2,6-Dichlorophenol	ppm
2,6-Dinitrotoluene	ppm
2-Chloronaphthalene	ppm
2-Chlorophenol	ppm
2-Methylnaphthalene	ppm
2-Nitrophenol	ppm
3,3-Dichlorobenzidine	ppm
4,6-Dinitro-2-methylphenol (Si	ppm
4-Bromophenyl-phenyl Ether	ppm
4-Chlorophenyl-phenyl Ether	ppm
4-Nitrophenol	ppm
5-Nitro-acenaphthene	ppm
Acenaphthene	ppm
Acenaphthylene	ppm
Anthracene	ppm
Benzidine	ppm
Benzo[a]Aanthracene	ppm
Benzo[a]Pyrene	ppm
Benzo[b]Fluoranthene	ppm
Benzo[ghi]Perylene	ppm
Benzo[k]Fluoanthrene	ppm
Biphenyl	ppm
bis(2-chlorethoxy) Methane	ppm
bis(2-chloroethyl)Ether	ppm
bis(2-chloroisopropyl)Ether	ppm
bis(2-ethylhexyl)Phthalate	ppm
Butlybenzylphthalate	ppm
Camphene	ppm
Chrysene	ppm
Di-N-Butyl Phthalate	ppm

Stream Sediment 625 Units

Di-N-Octyl Phthalate	ppm
Dibenzo[a,h]Anthracene	ppm
Diethyl Phthalate	ppm
Dimethyl Phthalate	ppm
Fluoranthene	ppm
Fluorene	ppm
Hexachlorobenzene	ppm
Hexachlorobutadiene	ppm
Hexachloocyclopentadiene	ppm
Hexachlorethane	ppm
Indeno(1,2,3-cd)Pyrene	ppm
Indole	ppm
Isophorene	ppm
m,p-Cresol	ppm
N-Nitroso-di-N-Propylamine	ppm
N-Nitroso-diphenylamine/Diph	ppm
Naphthalene	ppm
Nitrobenzene	ppm
o-Cresol	ppm
p-Chloro-m-cresol(4-chloro,3-	ppm
Pentachlorophenol	ppm
Perylene	ppm
Phenanthrene	ppm
Phenol	ppm
Pyrene	ppm
x-surrogate STD-2,4,6-Tribrom	%
x-surrogate STD-2-Fluorobiph	%
x-surrogate STD-2-Fluorophen	%
x-surrogate STD-Acenaphthyle	%
x-surrogate STD-Anthracene-d	%
x-surrogate STD-Nitrobenzene	%
x-surrogate STD-p-Terphenyl-	%
x-surrogate STD-Phenol-d5	%
x-surrogate STD-Pyrene-d10	%

Stream Water EPA 625
SW625.dbf

Hole ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenyl Hydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Chloronaphthalene	1-Methylnaphthalene	2,3,4,5/2,3,4,6-Tetrachlorophenol	2,3,4-Trichlorophenol	2,3,5,6-Tetrachlorophenol	2,3,5-Trichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Nitrophenol	3,3-Dichlorobenzidine	4,6-Dinitro-2-methylphenol (Sinox)	4-Bromophenyl-phenyl Ether	4-Chlorophenyl-phenyl Ether	4-Nitrophenol
SW1	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW3	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW5	07-11-96	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Stream
SW625.d

Hole ID	5-Nitro-acenaphthene	Acenaphthene	Acenaphthylene	Anthracene	Benzidine	Benzo[a]Anthracene	Benzo[a]Pyrene	Benzo[b]Fluoranthene	Benzo[ghi]Perylene	Benzo[k]Fluoanthrene	Biphenyl	bis(2-chloroethoxy) Methane	bis(2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Camphene	Chrysene	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Dibenzo[a,h]Anthracene	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)Pyrene
SW1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	TR	nd	nd	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SW5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Stream
SW625.d

Hole ID	Indole	Isophorene	m,p-Cresol	N-Nitroso-di-N-Propylamine	N-Nitroso-diphenylamine/Diphenylamine	Naphthalene	Nitrobenzene	o-Cresol	p-Chloro-m-cresol(4-chloro,3-methylphenol)	Pentachlorophenol	Perylene	Phenanthrene	Phenol	Pyrene	x-surrogate STD-2,4,5-Tribromophenol	x-surrogate STD-2-Fluorobiphenyl	x-surrogate STD-2-Fluorophenol	x-surrogate STD-Acenaphthylene-d8	x-surrogate STD-Anthracene-d10	x-surrogate STD-Nitrobenzene-d5	x-surrogate STD-p-Terphenyl-d14	x-surrogate STD-Phenol-d5	x-surrogate STD-Pyrene-d10
SW1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	95.5	85.6	50.8	85.7	90.2	84.9	99.1	85.5	99.7
SW3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	96.4	90.9	50.6	89.4	94.5	90.8	98.3	36	98.9
SW5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	98.3	91.1	52.6	89.5	90.7	90.9	97.5	37.2	99.9

Stream Water 625 Units

1,2,4-Trichlorobenzene	ppb
1,2-Dichlorobenzene	ppb
1,2-Diphenyl Hydrazine	ppb
1,3-Dichlorobenzene	ppb
1,4-Dichlorobenzene	ppb
1-Chloronaphthalene	ppb
1-Methylnaphthalene	ppb
2,3,4,5/2,3,4,6-Tetrachlorophe	ppb
2,3,4-Trichlorophenol	ppb
2,3,5,6-Tetrachlorophenol	ppb
2,3,5-Trichlorophenol	ppb
2,4,5-Trichlorophenol	ppb
2,4,6-Trichlorophenol	ppb
2,4-Dichlorophenol	ppb
2,4-Dimethylphenol	ppb
2,4-Dinitrophenol	ppb
2,4-Dinitrotoluene	ppb
2,6-Dichlorophenol	ppb
2,6-Dinitrotoluene	ppb
2-Chloronaphthalene	ppb
2-Chlorophenol	ppb
2-Methylnaphthalene	ppb
2-Nitrophenol	ppb
3,3-Dichlorobenzidine	ppb
4,6-Dinitro-2-methylphenol (Si	ppb
4-Bromophenyl-phenyl Ether	ppb
4-Chlorophenyl-phenyl Ether	ppb
4-Nitrophenol	ppb
5-Nitro-acenaphthene	ppb
Acenaphthene	ppb
Acenaphthylene	ppb
Anthracene	ppb
Benzidine	ppb
Benzo[a]Aanthracene	ppb
Benzo[a]Pyrene	ppb
Benzo[b]Fluoranthene	ppb
Benzo[ghi]Perylene	ppb
Benzo[k]Fluoanthrene	ppb
Biphenyl	ppb
bis(2-chlorethoxy) Methane	ppb
bis(2-chloroethyl)Ether	ppb
bis(2-chloroisopropyl)Ether	ppb
bis(2-ethylhexyl)Phthalate	ppb
Butlybenzylphthalate	ppb
Camphene	ppb
Chrysene	ppb
Di-N-Butyl Phthalate	ppb

Stream Water 625 Units

Di-N-Octyl Phthalate	ppb
Dibenzo[a,h]Anthracene	ppb
Diethyl Phthalate	ppb
Dimethyl Phthalate	ppb
Fluoranthene	ppb
Fluorene	ppb
Hexachlorobenzene	ppb
Hexachlorobutadiene	ppb
Hexachloocyclopentadiene	ppb
Hexachlorethane	ppb
Indeno(1,2,3-cd)Pyrene	ppb
Indole	ppb
Isophorene	ppb
m,p-Cresol	ppb
N-Nitroso-di-N-Propylamine	ppb
N-Nitroso-diphenylamine/Diph	ppb
Naphthalene	ppb
Nitrobenzene	ppb
o-Cresol	ppb
p-Chloro-m-cresol(4-chloro,3-	ppb
Pentachlorophenol	ppb
Perylene	ppb
Phenanthrene	ppb
Phenol	ppb
Pyrene	ppb
x-surrogate STD-2,4,6-Tribrom	%
x-surrogate STD-2-Fluorobiph	%
x-surrogate STD-2-Fluorophen	%
x-surrogate STD-Acenaphthyle	%
x-surrogate STD-Anthracene-d	%
x-surrogate STD-Nitrobenzene	%
x-surrogate STD-p-Terphenyl-	%
x-surrogate STD-Phenol-d5	%
x-surrogate STD-Pyrene-d10	%

GWl.dbf fields

Field	Description
HID	Hole ID
CDate	Sample Date
Na	Sodium
K	Potassium
Ca	Calcium
Mg	Magnesium
Alk	Alkalinity
SO4	Sulfate
Cl	Chloride
Si02	Reactive Silica
OPO4	Ortho Phosphorous
TPhos	Total phosphorous
NO2	Nitrite
NO32	Nitrates
NH3	Ammonia
TKN	Total Kjeldahl Nitrogen
Colour	Colour
Turb	Turbidity
SpCond	Specific Conductivity
pH	pH
TOC	TOC
Hard	Hardness (asCaCO3)
Bicarb	Bicarbonate
Carb	Carbonate
TDS	TDS
TSS	S. Sol.
Thcond	Theoretical Conductance
Catsum	Cation Sum
Ansum	Anion Sum
Ionbal	Ion Balance
Langind	Langelier Index (5C)
pHSat	Saturation pH
Al	Aluminum
Sb	Antimony
As	Arsenic
Ba	Barium
Be	Beryllium
Bi	Bismuth
B	Boron
Cd	Cadmium
Cr	Chromium
Co	Cobalt
Cu	Copper
Fe	Iron
Pb	Lead
Mn	Manganese
Mb	Molybdenum
Ni	Nickel
Se	Selenium
Ag	Silver
Sr	Strontium
Th	Thallium
Sn	Tin
T	Titanium
U	Uranium
V	Vanadium
Zn	Zinc
Hg	Mercury
F	Fluoride
BOD	BOD
COD	COD
RVG	Radon VG

Groundwater Inorganics
GWI.dbf

Hole ID	Sample Date	Sodium	Potassium	Calcium	Magnesium	Alkalinity	Sulfate	Chloride	Reactive Silica	Ortho Phosphorous	Total phosphorous	Nitrates	Ammonia	Colour	Turbidity	Specific Conductivity	pH	TOC	Hardness (asCaCO3)	Bicarbonate	Carbonate	TDS	Theoretical Conductan	Cation Sum	Anion Sum	Ion Balance	Langelier Index (5C)	Saturation pH	Aluminum	Antimony
MW-95-1B	02-07-96	4.7	0.6	3.0	1.2	14.0	2.0	4.3	12.3	nd		0.55	nd	38	489	48	5.9	1.0	12.3		nd			0.47	0.48	1.21	-4.29	10.2	990	nd
MW-95-1B	02-07-96	4.6	0.6	4.8	1.2	17.0	3.0	4.1	12.3	nd		0.49	nd	31	437	51	8.0	1.0	16.8		0.2			0.55	0.55	0.16	-1.9	9.9	990	nd
MW-1B	07-04-96	5.9	0.6	8.0	1.2	22	8.0	5.5	11.6	0.05	0.12	0.08	nd	42	13	78	6.6	0.8	24.9	22	nd	54	83	0.77	0.77	0.43	-2.96	9.56	200	nd
MW-95-2A	02-07-96	7.4	0.6	18.0	2.4	64.0	5.0	5.3	20.2	0.03		0.32	0.06	17	8	152	6.8	0.9	54.8		nd			1.44	1.49	1.93	-1.96	8.76	72	nd
MW-95-2B	02-07-96	15.3	2.2	39.8	6.8	134.0	12.0	8.4	11.2	0.02		0.09	nd	nd	36	327	8.0	1.0	127.0		1.2			3.27	3.17	1.52	-0.11	8.11	650	nd
MW-2B	05-23-96	9.5	1.0	9.1	1.4	37	7.0	4.7	18.1	0.08		nd	nd	14	10	101	6.7	nd	28.5	37	nd	73	105	1.01	1.02	0.43	-2.58	9.28	240	nd
MW-3A	06-28-96	5.3	0.8	1.0	0.5	2	nd	5.0	14.0	0.06	nd	0.42	0.26	410	72	47	5.8	18.9	4.6	2	nd	32	37	0.36	0.25	17.8	-5.7	11.5	430	nd
MW-3A	06-28-96	5.0	0.7	1.2	0.4	4	nd	4.2	13.1	0.03	nd	0.29	0.17	440	64	48	5.8	17.7	4.6	4	nd	31	35	0.34	0.26	13.5	-5.32	11.1	640	nd
MW-95-3B	02-07-96	55.2	3.0	32.7	4.9	127.0	84.0	9.8	10.9	nd		0.89	nd	5	2	487	7.8	2.0	102.0		0.7			4.52	4.59	0.77	-0.44	8.24	290	nd
MW-3B	05-25-96	8.9	0.4	5.9	1.0	16	nd	8.4	14.0	0.05		0.38	0.17	270	350	69	6.4	1.1	18.8	16	nd	52	77	0.79	0.63	11.4	-3.43	9.83	240	nd
MW-3C	05-23-96	17.3	0.9	20.3	2.5	86	12.0	6.5	14.5	0.23		0.12	0.08	32	46	177	7.7	0.5	61	85.6	nd	126	209	2	2.16	3.88	-0.88	8.58	210	nd
MW-4A	07-05-96	5.1	0.3	3.3	0.5	3	9	5.1	7.2	0.02	nd	0.11	nd	240	10	39	5.8	0.7	10.3	3	nd	33	51	0.44	0.4	4.96	-5	10.8	190	nd
MW-4A	07-05-96	5.1	0.3	3.4	0.5	3	9	4.9	7.3	0.22	nd	0.1	nd	360	29	41	5.8	0.7	10.5	3	nd	33	50	0.45	0.39	6.32	-4.99	10.8	190	nd
MW-4A	07-05-96	4.6	0.2	2.4	0.4	3	8	5	7.4	0.01	nd	0.09	nd	190	29	40	5.7	0.5	7.6	3	nd	30	45	0.36	0.37	1.41	-5.24	10.9	180	nd
MW-95-4B	02-07-96	12.0	2.1	53.4	9.0	178.0	11.0	5.0	11.8	0.06		0.31	nd	330	38	379	7.7	2.4	170.0		0.8			3.88	3.95	0.92	-0.16	7.86	1600	nd
MW-4B	05-23-96	8.8	1.0	7.5	1.8	33	13.0	6.1	22.1	0.06		0.13	0.05	100	59	95	6.6	nd	26	33	nd	81	110	0.93	1.11	8.76	-2.82	9.42	120	nd
MW-5A	06-27-96	4.1	0.4	2.5	0.4	6	11.0	4.5	7.2	0.01	nd	nd	nd	15	3	43	5.8	1.4	7.9	6	nd	34	50	0.35	0.48	15.4	-4.82	10.6	380	nd
MW-5B	05-23-96	3.5	0.2	0.7	0.3	nd	4.0	3.5	5.0	nd		nd	nd	nd	0	28	5.1	1.2	3.1	nd	nd	18	28	0.23	0.21	5.74	-6.69	11.8	530	nd
MW-5C	06-27-96	4.0	0.4	4.1	0.6	11	7.0	4.6	7.9	0.01	0.1	nd	nd	28	5	52	6.0	0.9	12.7	11	nd	35	53	0.44	0.5	5.96	-4.15	10.1	270	nd
MW-6A	07-05-96	4.4	0.4	3	0.9	6	10	5.8	8.9	nd	nd	0.08	nd	290	16	47	6.1	0.5	11.2	6	nd	37	55	0.43	0.5	7.28	-4.45	10.5	100	nd
MW-6B	05-25-96	7.7	0.4	8.5	1.6	27	18.0	7.9	17.5	0.17		0.23	0.07	180	78	99	6.7	1.1	27.8	27	nd	79	115	0.91	1.15	12	-2.75	9.45	79	nd
MW-7A	06-27-96	6.6	0.8	11	2.1	19	nd	14.7	21.5	0.03	nd	0.59	0.42	560	102	103	6.9	1.8	36.1	19	nd	73	108	1.06	0.88	9.35	-2.59	9.49	2600	nd
MW-7B	05-23-96	13.8	1.0	13.9	3.2	60	7.0	5.7	23.0	0.13		nd	nd	18	12	146	7.1	0.5	47.9	59.9	nd	104	155	1.59	1.51	2.47	-1.8	8.9	170	nd
MW-7C	05-23-96	12.6	8.6	15.2	3.0	44	29.0	9.9	25.4	0.17		0.47	0.29	450	130	140	7.2	0.5	50.3	43.9	nd	133	202	1.79	1.8	0.04	-1.8	9	540	nd
MW-8A	07-03-96	12	0.6	0.9	0.4	6	11	5.6	7.3	0.02		nd	nd	22	35	64	6.0	nd	3.8	6	nd	42	65	0.62	0.51	9.53	-5.02	11	1000	nd
MW-8B	05-23-96	38.0	1.3	5.8	1.5	44	43.0	10.4	20.7	0.49		0.36	0.22	290	105	193	7.2	5.7	20.7	43.9	nd	149	234	2.11	2.09	0.51	-2.22	9.42	2800	nd
MW-8C	07-03-96	10.7	0.8	10.5	2	38	nd	8.2	20.2	0.04		0.09	nd	+1000	238	114	6.8	nd	34.5	38	nd	78	114	1.18	1.04	6.27	-2.41	9.21	740	nd
MW-8C	07-03-96	10.1	0.7	10	1.9	27	nd	14.4	20.1	0.1		0.06	nd	+1000	235	113	6.8	1.8	32.7	27	nd	76	114	1.12	0.99	5.86	-2.58	9.38	2000	nd
MW-9A	07-05-96	6	0.3	3	0.7	13	7	4.6	11.8	0.02	nd	nd	nd	43	4	51	6.0	1.8	10.4	13	nd	41	57	0.48	0.54	5.72	-4.21	10.2	160	nd
MW-9B	05-23-96	14.0	0.7	3.4	0.9	16	16.0	5.8	13.3	0.17		0.17	nd	68	22	90	6.4	2.1	12.2	16	nd	65	96	0.87	0.83	2.68	-3.68	10.1	630	nd
MW-10B	07-03-96	7.1	0.6	7	1	18	nd	7.4	17.3	0.08		nd	nd	390	34	81	6.4	1.6	21.7	18	nd	54	74	0.76	0.61	10.8	-3.3	9.7	1800	nd
MW-10C	05-25-96	15.0	0.8	4.9	1.0	14	27.0	8.0	22.4	0.15		0.29	0.12	290	84	94	6.4	2.7	16.4	14	nd	89	123	1.01	1.09	3.78	-3.58	9.98	260	nd
MW-11B	07-05-96	3.6	0.2	1.3	0.4	3	7	3.5	8.4	nd	nd	nd	nd	47	2	36	5.6	1.3	4.9	3	nd	26	35	0.27	0.31	7.37	-5.61	11.2	320	nd
MW-12B	07-05-96	6.5	0.4	2.1	0.3	6	11.0	5.1	7.3	nd	0.29	0.20	nd	230	26	46	5.8	0.8	6.5	6	nd	37	56	0.43	0.51	8.48	-4.9	10.7	1500	nd
MW-13B	05-25-96	9.3	0.7	13.5	2.7	47	10.0	5.9	18.7	0.03		0.14	nd	84	42	126	7.1	1.2	44.8	46.9	nd	90	136	1.32	1.32	0.09	-1.91	9.01	240	nd
MW-13B	05-25-96	9.2	0.7	13.3	2.7	47	10.0	5.7	18.8	0.03		0.14	nd	110	45	126	7.0	1.1	44.3	47	nd	89	135	1.31	1.32	0.42	-2.02	9.02	220	nd
MW-13C	05-25-96	11.1	1.7	17.3	2.8	63	14.0	6.5	16.6	0.06		0.16	0.15	96	66	159	7.3	2.2	54.7	62.9	nd	109	174	1.63	1.75	3.41	-1.48	8.78	180	nd
MW-14A	07-04-96	13.9	1.8	31	5.2	111	16	6.4	11.8	nd	nd	0.07	nd	92	32	245	7.6	1.8	98.8	111	nd	153	269	2.63	2.74	2.03	-0.69	8.29	1700	nd
MW-14B	07-04-96	9.3	1.7	22.3	3.2	77	11	5.8	21.9	0.01	0.27	0.13	nd	110	33	173	6.8	1	68.9	77	nd	122	191	1.83	1.94	3.02	-1.79	8.59	300	nd
MW-15A	05-23-96	11.2	2.4	72.5	7.6	163	44.0	6.6	19.0	0.06		0.47	nd	5	84	465	7.8	3.2	212	162	nd	263	472	4.8	4.39	4.36	0.03	7.77	29	nd
MW-15B	05-23-96	10.6	1.3	36.0	5.3	115	8.0	5.3	19.3	0.05		0.33	nd	nd	63	241	7.2	nd	112	115	nd	156	265	2.73	2.64	1.7	-1.01	8.21	55	nd
MW-15B	05-23-96	10.4	1.1	35.4	5.2	113	9.0	5.4	19.3	0.05		0.32	nd	7	62	242	7.2	nd	110	113	nd	155	262	2.68	2.62	1.06	-1.03	8.23	68	nd
MW-15C	05-23-96	9.1	1.0	25.1	3.9	83	4.0	7.0	19.5	0.05		0.07	nd	nd	3	181	7.0	nd	78.7	82.9	nd	120	195	2	1.95	1.34	-1.5	8.5	11	nd
MW-16A	06-28-96	6.3	1.0	8.6	2.2	37	9.0	5.6	17.8	0.05	nd	0.27	0.12	44	75	102	6.8	0.9	30.5	37	nd	74	106	0.92	1.1	9.19	-2.51	9.31	210	nd
MW-16B	06-28-96	7.7	0.7	27.4	3.2	90	6.0	6.5	15.6	0.08	0.35	nd	nd	9	11	196	7.4	0.5	81.6	89.8	nd	121	203	1.99	2.11	3.04	-1.03	8.43	220	nd
MW-17A	07-05-96	49.8	1.5	3.7	0.9	35	48	16.7	17.8	1.9	10.7	0.34	0.38	1000	183	254	7.0	6.1	12.9	35	nd	161	266	2.49	2.19	6.34	-2.72	9.72	3900	nd
MW-17B	07-04-96	5.8	1	5	1.6	11	8	5.2	12.9	0.08	0.32	0.22	0.07	410	139	54	6.0	1.6	19.1	11	nd	47	68	0.67	0.55	9.58	-4.06	10.1	320	nd

Groundwater Inorganics
GWI.dbf

Hole ID	Sample Date	Sodium	Potassium	Calcium	Magnesium	Alkalinity	Sulfate	Chloride	Reactive Silica	Ortho Phosphorous	Total phosphorous	Nitrates	Ammonia	Colour	Turbidity	Specific Conductivity	pH	TOC	Hardness (asCaCO3)	Bicarbonate	Carbonate	TDS	Theoretical Conductan	Cation Sum	Anion Sum	Ion Balance	Langelier Index (5C)	Saturation pH	Aluminum	Antimony
MW-18B	07-04-96	14.1	0.4	8	1.2	19	23	7.1	15.5	0.12	0.72	0.22	0.09	180	36	83	6.5	1.2	24.9	19	nd	82	125	1.13	1.07	2.45	-3.13	9.63	420	nd
MW-18C	07-04-96	9.2	0.5	6.1	1.7	14	12	5.7	14.8	0.27	0.96	0.09	nd	70	14	80	6.4	0.8	22.2	14	nd	59	87	0.86	0.7	10.6	-3.48	9.88	410	nd
MW-19B	07-04-96	180	7.8	26.6	21	158	275	56.6	52.2	4.5	107	5.46	1.08	+1000	668	825	7.3	4.2	154	158	nd	740	1260	11.2	10.9	1.42	-0.97	8.27	920	nd
MW-20A	06-28-96	7.4	1.1	2.1	0.7	10	11.0	4.7	11.9	0.01	nd	nd	nd	22	9	61	6.4	0.9	8.1	10	nd	45	62	0.52	0.56	4.48	-4.08	10.5	220	nd
MW-20B	06-28-96	6.5	0.6	3.8	1.1	11	10.0	4.6	12.4	0.05	0.2	nd	nd	26	9	59	6.2	0.5	14.1	11	nd	46	65	0.58	0.56	2.06	-3.98	10.2	770	nd
MW-20B	06-28-96	6.3	0.5	3.8	1.1	11	10.0	4.7	12.1	0.04	0.21	nd	nd	21	7	57	6.2	0.5	14	11	nd	45	64	0.57	0.56	0.54	-3.98	10.2	800	nd
MW-21B	05-25-96	3.5	0.1	0.7	0.2	2	4.0	3.1	4.0	nd		nd	nd	13	3	29	5.5	7.2	2.6	2	nd	17	26	0.21	0.21	0.29	-5.99	11.5	76	nd
MW-22	07-04-96	4.4	1.4	8.1	1.4	26	8	3.9	11.5	nd	0.1	nd	nd	95	15	71	6.4	1.4	26	26	nd	55	82	0.75	0.8	3.18	-3.08	9.48	400	nd
MW-23	07-04-96	7.3	0.5	6.6	0.8	9	23	8.3	8.3	nd	nd	0.11	0.08	240	58	69	5.8	4.3	19.8	9	nd	61	99	0.73	0.9	10.3	-4.23	10	290	nd
MW-95-1A	07-05-96	9.3	0.6	18	2	52	6	5.2	21.2	0.09	0.17	0.07	nd	49	6	137	6.9	0.5	53.2	52	nd	94	142	1.49	1.32	6.06	-1.95	8.85	110	nd
MW-95-3A	07-05-95	14.9	1.2	31.7	4.0	109	4.0	6.3	16.2	0.08	0.1	0.23	nd	50	5	235	7.3	0.7	95.6	109	nd	145	248	2.59	2.46	2.7	-0.99	8.29	96	nd
MW-95-4A	07-05-96	5.8	0.4	8.8	1.4	25	9	4.7	13.8	0.05	nd	0.1	nd	180	32	78	6.4	0.7	27.7	25	nd	59	88	0.82	0.83	0.37	-3.07	9.47	190	nd
RDF-11	07-05-96	5.6	0.3	5.2	1.1	17	7	4.9	10.6	0.03	nd	0.08	nd	130	7	60	6.3	0.8	17.5	17	nd	45	67	0.61	0.63	1.95	-3.56	9.86	120	nd
RDF-14A	07-05-96	12.8	1.2	26.6	5.8	101	3	8.9	17.8	0.07	nd	0.5	nd	5	3	218	6.9	0.5	90.3	101	nd	139	235	2.4	2.37	0.56	-1.5	8.4	11	nd
RDF-16	07-05-96	5.2	0.2	2.2	0.3	4	8	5.5	6	nd	nd	0.26	0.06	610	46	45	5.8	1.8	6.7	4	nd	31	48	0.37	0.42	6.11	-5.05	10.9	280	nd
RDF-21	07-05-96	6	0.5	0.8	0.3	1	12	5.7	7.2	0.29	nd	0.06	nd	420	34	39	5.5	2.7	3.2	nd	nd	33	49	0.35	0.43	11.5	-6.3	11.8	620	nd
RDF-31	07-05-96	13.4	0.1	0.7	0.1	11	14	6.6	12.1	nd	nd	0.56	0.14	980	86	73	6.1	1.5	2.2	11	nd	56	80	0.64	0.74	7.11	-4.67	10.8	460	nd

Groundwat
GWI.dbf

Hole ID	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Molybdenum	Nickel	Selenium	Silver	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc	Mercury	Fluoride	BOD	COD	Radon VG
MW-95-1B	2.0	110.0	nd		5.0	nd	3.0	4.0	22	1300	6.0	300.0	nd	7	nd	nd	27	nd	nd		0.7	2	52					46
MW-95-1B	2.0	110.0	nd		5.0	nd	2.0	4.0	23	1300	5.0	310.0	nd	7	nd	nd	26	nd	nd		0.7	2	53					
MW-1B	2	15	nd	nd	nd	nd	12	1	6	170	1.2	51	nd	7	nd	nd	24	nd	nd	5	2.2	nd	31		0.33			674
MW-95-2A	nd	10.0	nd		5.0	nd	nd	1.0	5	60	1.0	310.0	nd	nd	nd	nd	32	nd	nd		0.5	nd	20					32
MW-95-2B	3.0	86.0	nd		32.0	nd	2.0	1.0	31	360	2.0	220.0	10.0	2	nd	nd	160	nd	nd		18.0	2	45					5
MW-2B	3	14	nd		11	nd	nd	nd	3	180	0.6	160	2	2	nd	nd	74	nd	nd		17	nd	110	nd	0.42			1250
MW-3A	5	7	nd	nd	nd	nd	nd	1	nd	4500	0.3	130	nd	2	nd	nd	5	0.1	nd	3	1.8	3	11	nd	nd			793
MW-3A	nd	nd	nd	nd	nd	nd	nd	nd	nd	4600	nd	130	nd	nd	nd	nd	nd	nd	nd	nd	2	nd	25	nd	nd			
MW-95-3B	3.0	55.0	nd		70.0	0.5	nd	nd	13	160	2.0	17.0	130.0	nd	2.0	nd	180	nd	nd		39.0	3	30					3
MW-3B	4	330	nd		63	nd	5	1	2	270	2	47	nd	3	-2	nd	40	nd	nd		12	nd	200	nd	0.28	4	nd	1750
MW-3C	14	18	nd		35	nd	nd	1	3	200	0.7	85	5	5	nd	nd	160	nd	nd		200	nd	300	0.09	0.88			3633
MW-4A	nd	12	nd	nd	13	nd	49	7	13	190	1.9	89	nd	19	nd	nd	12	nd	nd	3	1.1	nd	89	nd	nd			244
MW-4A	nd	12	nd	nd	13	nd	49	7	13	200	1.9	88	nd	18	nd	nd	11	nd	nd	3	1.2	nd	89	nd	nd			
MW-4A	nd	7	nd	nd	6	nd	nd	7	7	71	0.2	74	nd	15	nd	nd	9	nd	nd	2	0.8	nd	32	nd	nd			
MW-95-4B	2.0	130.0	nd		5.0	0.7	3.0	3.0	140	1200	7.0	310.0	nd	6	nd	nd	150	nd	nd		1.6	4	130					9.00
MW-4B	2	12	nd		12	nd	nd	nd	nd	120	0.5	48	nd	2	nd	nd	49	nd	nd		13	nd	350	nd	0.28			1695
MW-5A	nd	13	nd	nd	5	nd	nd	10	8	270	0.5	150	nd	96	nd	nd	15	nd	nd	5	0.2	nd	190	nd	nd	nd	14	122
MW-5B	nd	7	nd		nd	nd	nd	3	20	160	0.2	51	nd	3	nd	nd	7	nd	nd		0.4	nd	75	nd	nd	nd	10	228
MW-5C	nd	11	nd	nd	nd	nd	nd	1	2	390	0.3	87	7	4	nd	nd	18	nd	nd	4	7	nd	12	nd	0.12	nd	5	340
MW-6A	nd	17	nd	nd	nd	nd	nd	nd	nd	50	0.1	10	nd	nd	nd	nd	15	nd	nd	nd	nd	nd	3	nd	nd			87
MW-6B	4	140	nd		21	nd	2	nd	nd	50	0.2	15	nd	nd	nd	nd	37	nd	nd		6.8	nd	140	nd	0.19			749
MW-7A	5	62	nd	nd	10	nd	2	2	10	3400	3.7	640	nd	3	nd	nd	29	nd	nd	130	3.8	6	14	nd	0.2	nd	14	144
MW-7B	6	19	nd		14	nd	2	nd	nd	130	0.4	86	4	nd	nd	nd	80	nd	nd		51	nd	280	0.06	0.88	nd	nd	2610
MW-7C	5	31	nd		14	nd	6	nd	nd	540	1.8	100	3	2	nd	nd	100	nd	nd		51	nd	200	0.06	1.05	nd	nd	3557
MW-8A	nd	15	nd		11	nd	3	2	13	590	5.8	260	3	3	nd	0.8	12	nd	nd		0.9	nd	57	nd	nd	nd	20	148
MW-8B	7	53	nd		24	0.5	80	2	47	1800	4.1	250	2	10	nd	nd	94	nd	nd		62	2	820	0.14	0.83	nd	10	1703
MW-8C	6	16	nd		11	nd	nd	nd	nd	490	0.4	16	5	nd	nd	nd	74	nd	nd		49	nd	7	nd	1.21	nd	20	372
MW-8C	7	24	nd		10	nd	2	nd	nd	1400	0.9	27	5	nd	nd	nd	76	nd	nd		53	2	9	nd	1.18	nd	7	
MW-9A	nd	7	nd	nd	6	nd	nd	nd	nd	300	0.2	36	nd	nd	nd	nd	11	nd	nd	2	0.5	nd	4	nd	0.16			362
MW-9B	2	17	nd		8	0.3	2	1	7	600	1.7	130	nd	5	nd	nd	55	nd	nd		3.7	nd	550	0.06	0.22			434
MW-10B	20	22	nd		5	0.6	2	5	4	1800	1.9	470	7	2	nd	nd	28	nd	nd		28	2	34	nd	0.16	nd	10	2525
MW-10C	30	210	nd		50	nd	3	2	nd	630	1.5	250	nd	3	nd	nd	52	nd	nd		17	nd	450	0.26	0.21			2810
MW-11B	nd	7	nd	nd	5	nd	nd	nd	46	97	0.5	37	40	nd	nd	nd	7	nd	nd	nd	0.6	nd	15	0.06	0.19			733
MW-12B	nd	5	nd	nd	6	nd	nd	2	17	450	0.7	49	120	nd	nd	nd	17	nd	nd	16	1.2	nd	14	0.06	0.19			533
MW-13B	2	270	nd		31	nd	2	1	nd	160	0.4	120	33	2	nd	nd	55	nd	nd		5.3	nd	180	nd	0.83			943
MW-13B	2	280	nd		32	nd	2	1	nd	170	0.4	110	35	2	nd	nd	56	nd	nd		5.6	nd	200	nd	0.83			
MW-13C	4	220	nd		40	0.3	6	nd	2	170	1.6	76	94	nd	nd	nd	65	nd	nd		25	nd	300	nd	0.8			1118
MW-14A	nd	39	nd	nd	6	nd	4	20	5	1200	1.2	370	3	6	nd	nd	92	nd	nd	52	3	nd	23	nd	0.21			42
MW-14B	nd	53	nd	nd	nd	nd	nd	3	4	360	0.8	640	63	2	nd	nd	56	nd	nd	7	2	nd	84	0.08	0.25	nd	11	674
MW-15A	nd	62	nd		13	nd	nd	nd	3	nd	0.2	60	4	nd	nd	nd	84	nd	nd		3	nd	53	0.07	0.14			
MW-15B	nd	16	nd		8	nd	nd	nd	nd	nd	0.1	21	nd	nd	nd	nd	57	nd	nd		4	nd	36	0.09	0.13			2016
MW-15B	nd	16	nd		8	nd	nd	nd	nd	24	0.1	20	nd	nd	nd	nd	58	nd	nd		4.2	nd	38	0.09				
MW-15C	nd	7	nd		9	nd	nd	nd	nd	nd	nd	11	nd	nd	nd	nd	43	nd	nd		2	nd	13	0.06	0.13			1509
MW-16A	nd	19	nd	nd	nd	nd	38	nd	nd	120	0.2	75	nd	2	nd	nd	29	0.1	nd	5	nd	2	9	nd	0.14			34
MW-16B	nd	74	nd	nd	nd	nd	nd	nd	nd	nd	1.1	43	nd	nd	nd	nd	66	nd	nd	nd	9.4	nd	100	nd	0.19			977
MW-17A	6	14	nd	nd	23	nd	4	1	4	4100	3.5	200	3	3	nd	nd	61	nd	nd	34	5.3	3	29	0.07	0.34			104
MW-17B	nd	15	nd	nd	nd	nd	nd	1	8	350	1.6	73	nd	2	nd	0.7	19	nd	nd	10	2.1	nd	46	0.08	0.27			1220

Groundwat
GWI.dbf

Hole ID	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Molybdenum	Nickel	Selenium	Silver	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc	Mercury	Fluoride	BOD	COD	Radon VG
MW-18B	2	5	nd	nd	5	nd	nd	3	9	250	0.5	58	47	nd	nd	nd	26	nd	nd	5	1.5	nd	15	nd	0.37	nd	8	2328
MW-18C	4	nd	nd	nd	nd	nd	nd	2	4	210	0.8	72	13	nd	nd	nd	48	nd	nd	3	2.7	nd	15		0.46			1324
MW-19B	5	10	nd	nd	7	0.3	11	1	4	570	2.9	65	2	9	nd	nd	96	nd	nd	14	19	nd	14	0.11	0.45			1271
MW-20A	nd	nd	nd	nd	nd	nd	nd	2	3	110	0.2	460	3	5	nd	nd	15	nd	nd	3	0.3	nd	13	nd	0.16	nd	18	766
MW-20B	4	45	nd	nd	nd	nd	nd	1	27	940	2.3	170	11	3	nd	1.2	51	nd	2	23	25	nd	120	nd	0.19	nd	11	986
MW-20B	4	46	nd	nd	nd	nd	nd	1	8	1000	1.3	170	11	nd	nd	1.4	49	nd	2	27	24	nd	67	nd	0.18	nd	12	
MW-21B	nd	78	nd		120	0.7	nd	8	9	79	0.1	38	nd	2	nd	nd	5	nd	nd		0.2	nd	66	nd	nd			185
MW-22	nd	12	nd	nd	nd	nd	48	22	2	420	0.6	460	nd	4	nd	nd	13	nd	nd	9	0.2	nd	56	0.06	nd	nd	46	72
MW-23	nd	45	nd	nd	nd	nd	nd	12	7	2300	0.9	1600	nd	7	nd	nd	16	nd	nd	5	0.8	nd	89	0.56	nd	nd	109	143
MW-95-1A	6	21	nd	nd	9	0.3	nd	nd	3	56	0.7	62	nd	nd	nd	nd	37	nd	nd	3	12	nd	36	nd	0.3			487
MW-95-3A	nd	8	nd	nd	16	nd	nd	1	2	28	0.2	50	2	nd	nd	nd	79	nd	nd	nd	3.8	nd	6	nd	0.23			793
MW-95-4A	nd	6	nd	nd	5	nd	nd	1	nd	92	0.2	7	nd	nd	nd	nd	19	nd	nd	2	0.7	nd	8	nd	0.27			1559
RDF-11	nd	9	nd	nd	5	nd	nd	nd	nd	40	0.3	6	nd	nd	nd	nd	15	nd	nd	3	0.5	nd	3	nd	nd			353
RDF-14A	nd	7	nd	nd	9	nd	nd	nd	nd	nd	nd	42	nd	nd	nd	nd	88	nd	nd	nd	0.8	nd	5	0.07	0.27			1642
RDF-16	nd	6	nd	nd	6	nd	nd	1	4	78	0.2	72	26	3	nd	nd	10	nd	nd	3	0.2	nd	6	0.07	nd			478
RDF-21	2	5	nd	nd	5	nd	nd	2	8	4500	0.7	360	37	7	nd	nd	8	nd	nd	11	0.9	nd	6	0.07	nd			331
RDF-31	2	7	nd	nd	6	nd	nd	1	3	530	1.2	23	5	nd	nd	nd	nd	nd	nd	7	1.1	nd	15	0.08	0.22			195

Groundwater Inorganic Units

Sodium	ppm
Potassium	ppm
Calcium	ppm
Magnesium	ppm
Alkalinity	ppm
Sulfate	ppm
Chloride	ppm
Reactive Silica	ppm
Ortho Phosphorous	ppm
Total phosphorous	ppm
Nitrates	ppm
Ammonia	ppm
Colour	TCU
Turbidity	NTU
Specific Conductivity	umhos/cm
pH	Units
TOC	ppm
Hardness (asCaCO3)	ppm
Bicarbonate	ppm
Carbonate	ppm
TDS	ppm
Theoretical Conductance	umhos/cm
Cation Sum	meq/L
Anion Sum	meq/L
Ion Balance	%
Langelier Index (5C)	
Saturation pH	Units
Aluminum	ppb
Antimony	ppb
Arsenic	ppb
Barium	ppb
Beryllium	ppb
Bismuth	ppb
Boron	ppb
Cadmium	ppb
Chromium	ppb
Cobalt	ppb
Copper	ppb
Iron	ppb
Lead	ppb
Manganese	ppb
Molybdenum	ppb
Nickel	ppb
Selenium	ppb
Silver	ppb
Strontium	ppb
Thallium	ppb
Tin	ppb
Titanium	ppb
Uranium	ppb
Vanadium	ppb
Zinc	ppb
Mercury	ppb
Fluoride	ppm
BOD	ppm
COD	ppm
Radon VG	Beq/l

SSI.dbf Fields

Field	Description
hole_id	Hole ID
Cdate	Sample Date
SAl	Aluminum
SSB	Antimony
SAs	Arsenic
SBA	Barium
SBe	Beryllium
SB	Boron
SCd	Cadmium
SCr	Chromium
SCo	Cobalt
SCu	Copper
SFe	Iron
SPb	Lead
SMn	Manganese
SMb	Molybdenum
SNi	Nickel
SSe	Selenium
SSr	Strontium
STh	Thallium
SSn	Tin
SU	Uranium
SV	Vanadium
SZn	Zinc
SHg	Mercury
TIC	Total Inorganic Carbon
CEA	Cation Exchange Capacity

Sediment Inorganics
SSI.dbf

Hole ID	Sample Date	pH	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Molybdenum	Nickel	Selenium	Strontium	Thallium	Tin	Uranium	Vanadium	Zinc	Mercury	TIC	CEA
SW-1	07-11-96		3400	nd	nd	13	nd	nd	nd	4	1.9	nd	6000	6.9	83	nd	3	nd	nd	nd	nd	1	6	23	0.01		
SW-2	07-11-96		7700	nd	3.2	51	nd	nd	0.4	4	1.7	9	5400	39	66	nd	6	nd	15	0.1	2	6.8	9	25	0.21		
SW-4	07-11-96		14000	nd	7.5	61	nd	nd	0.5	8	4.3	7	10000	36	280	nd	6	nd	13	0.2	nd	22	14	41	0.21		
SW-4B	07-11-96		15000	nd	6	69	nd	nd	0.7	9	4	8	6900	34	190	nd	7	3	17	0.2	nd	24	15	47	0.17		
SW-7	07-15-96		6400	nd	2	65	nd	nd	0.5	5	2	11	5200	34	92	nd	9	nd	21	0.1	2	5.9	12	44	0.15		
SW-7R	07-15-96		5700	nd	nd	57	nd	nd	0.5	4	1.8	10	5100	32	85	nd	8	nd	21	nd	4	5.3	11	40	0.14		
SW-8	07-15-96		6200	nd	4.1	28	nd	nd	nd	3	1.1	5	4600	36	27	nd	3	nd	8	0.1	2	7	10	13	0.28		
SW-9	07-15-96		7600	nd	4.2	27	nd	nd	nd	3	1	8	4200	44	26	3	4	3	7	0.1	2	30	8	16	0.38		
SW-12	07-15-96		6800	nd	3.5	15	nd	nd	nd	5	2.5	2	12000	7	340	nd	4	nd	nd	0.1	2	2.3	11	32	0.01		
SW-12B	07-15-96		6700	nd	4.4	15	nd	nd	nd	5	2.7	2	12000	7.2	470	nd	4	nd	nd	0.1	2	2.8	12	32	0.01		
TPB1SA3	06-04-96	7.3	11000	3	5.4	100	nd	nd	nd	18	9	15	19000	11	590	nd	19	nd	10	0.1	nd	1	17	49		16.8	108
TPB2SA3	06-04-96	6.3	11000	nd	5.7	120	nd	nd	nd	15	8.7	16	20000	10	580	nd	18	nd	9	0.1	nd	1.3	17	50		17	254
TPRD8SA2	06-04-96	7.8	12000	nd	6.1	120	nd	nd	nd	18	8.7	16	22000	12	460	nd	20	nd	9	0.1	nd	2.2	18	53		20	59
TP101SA1	06-04-96	8.6	15000	nd	6.2	83	nd	nd	nd	15	6.9	14	18000	9.8	430	nd	15	nd	5	0.2	nd	2.7	16	41		16.2	
TP117SA2	06-04-96	7.7	11000	nd	6.1	120	nd	nd	nd	17	9.7	17	20000	12	630	nd	21	nd	15	0.2	nd	1.2	16	56		24.1	72
BH1-2	02-29-96																					3.2					
BH1-11B	02-29-96																					4.0					
BH3-6	02-29-96																					3.1					
BH3-8	02-29-96																					2.8					
BH3-11	02-29-96																					4.2					
AP3-2	02-29-96																					3.1					
AP8-1	02-29-96																					3.3					
AP10-3	02-29-96																					2.7					
TP-B3-3A	02-29-96																					3.0					
FEP-TP-9	02-29-96																					3.2					
FEP-TP-15-2	02-29-96																					3.1					
FEP-TP-15-3	02-29-96																					3.6					
FEP-TP-39	02-29-96																					15.1					
MW-95-3A-3	02-29-96																					4.1					
BH1-2	02-29-96																					3.1					

Sediment Inorganic Units

pH	Units
Aluminum	ppm
Antimony	ppm
Arsenic	ppm
Barium	ppm
Beryllium	ppm
Boron	ppm
Cadmium	ppm
Chromium	ppm
Cobalt	ppm
Copper	ppm
Iron	ppm
Lead	ppm
Manganese	ppm
Molybdenum	ppm
Nickel	ppm
Selenium	ppm
Strontium	ppm
Thallium	ppm
Tin	ppm
Uranium	ppm
Vanadium	ppm
Zinc	ppm
Mercury	ppm
TIC	g/kg
CEA	g/kg

SWI.dbf Fields

Field	Description
hole_id	Hole ID
CDate	Sample Date
Na	Sodium
K	Potassium
Ca	Calcium
Mg	Magnesium
Alk	Alkalinity
SO4	Sulphate
Cl	Chloride
sio2	Reactive Silica
OPO4	Ortho-Phosphate
TPhos	Total Phosphorus
NO2	Nitrite
NO23	Nitrate
NH3	Ammonia
TKN	TKN
Colour	Colour
Turb	Turbidity
spcond	Specific Conductivity
pH	pH
TOC	Diss. Organic Carbon
Hard	Hardness
Bicarb	Bicarbonate
Carb	Carbonate
TDS	TDS
TSS	Total Suspended Solids
catsum	Cation Sum
Ansum	Anion Sum
Ionbal	Ion Balance
langind	Langelier Index @ 20 deg
phsat	Saturation pH
	METALS
al	Aluminum
sb	Antimony
as	Arsenic
ba	Barium
be	Beryllium
bi	Bismuth
b	Boron
cd	Cadmium
cr	Chromium
co	Cobalt
cu	Copper
fe	Iron
pb	Lead
mn	Manganese
mb	Molybdenum
ni	Nickel
se	Selenium
ag	Silver
sr	Strontium
th	Thallium
sn	Tin
t	Titanium
u	Uranium
v	Vanadium
zn	Zinc
hg	Mercury
f	Fluoride
bod	BOD
cod	COD
rvg	Radon

Stream Water Inorganics
SWI.dbf

Hole ID	Sample Date	Sodium	Potassium	Calcium	Magnesium	Alkalinity	Sulfate	Chloride	Reactive Silica	Ortho Phosphorous	Total phosphorous	Nitrite	Nitrates	Ammonia	Total Kjeldahl Nitrogen	Colour	Turbidity	Specific Conductivity	pH	TOC	Hardness (asCaCO3)	Bicarbonate	Carbonate	TDS	S. Sol.	Cation Sum	Anion Sum	Ion Balance	Langelier Index (5C)	Saturation pH	Aluminum
SW-1	07-11-96	14.2	1.3	4.4	0.6	5.0	13.0	18.3	1.3	0.01	nd	nd	0.97	0.06	0.5	40	0.9	112.0	6.3	6.4	13.5	5	nd	60	1.6	0.92	0.96	1.65	-3.79	10.1	230
SW-2	07-11-96	3.6	0.1	0.4	0.2	nd	8.0	4.6	4.6	0.01	nd	nd	0.06	nd	0.6	130	0.3	49.2	4.3	21.7	1.8	nd	nd	22	nd	0.25	0.32	12.50	-7.49	11.4	690
SW-3	07-11-96	11.9	1.0	3.8	0.5	3.0	12.0	16.7	1.2	0.01	nd	nd	0.70	0.05	0.5	38	0.9	98.1	6.1	7.1	11.5	3	nd	52	2.4	0.78	0.83	3.24	-4.27	10.1	220
SW-4	07-11-96	3.9	0.4	0.4	0.4	nd	10.0	4.4	7.2	0.01	nd	nd	nd	nd	0.4	66	2.0	33.1	5.0	13.7	2.6	nd	nd	28	2.0	0.25	0.36	18.20	-6.42	11.4	680
SW-5	07-11-96	11.4	1.0	3.5	0.5	3.0	12.0	16.0	1.3	0.01	nd	nd	0.66	nd	0.5	40	0.9	90.4	6.1	7.3	10.8	3	nd	50	2.4	0.74	0.81	4.28	-4.30	10.4	220
SW-6	07-15-96	11.0	0.7	2.9	0.3	nd	6.0	15.0	1.0	0.05	nd	nd	0.38	nd	0.5	65	0.7	77.7	5.9	9.1	8.5	nd	nd	39	6.8	0.67	0.59	5.98	-5.44	11.3	300
SW-7	07-15-96	11.1	0.7	2.6	0.3	1.0	6.0	13.7	1.3	0.02	nd	nd	0.30	nd	0.5	58	1.0	72.5	5.8	10.3	7.7	nd	nd	38	4.8	0.66	0.55	8.89	-5.59	11.4	270
SW-8	07-15-96	4.0	0.2	0.8	0.4	nd	8.0	4.3	5.0	0.01	0.12	nd	0.42	nd	0.7	160	0.3	59.8	4.2	31.8	3.6	nd	nd	25	7.3	0.32	0.34	2.90	-7.92	11.4	86
SW-9	07-15-96	4.3	0.2	0.8	0.5	nd	7.0	4.0	4.5	0.01	0.13	nd	nd	nd	0.5	170	0.8	44.2	4.4	32.7	4.1	nd	nd	22	1.2	0.32	0.28	5.79	-7.41	11.4	960
SW-10	07-15-96	3.2	0.2	0.6	0.3	nd	4.0	3.7	nd	nd	0.15	nd	nd	nd	0.3	15	0.3	24.5	5.2	4.3	2.7	nd	nd	13	3.6	0.21	0.21	0.54	-6.61	11.4	160
SW-11	07-15-96	3.1	0.3	0.6	0.3	nd	6.0	3.7	nd	nd	0.12	nd	nd	nd	0.2	-5	0.6	22.9	5.3	2.5	2.7	nd	nd	15	2.4	0.21	0.25	10.20	-6.51	11.4	190
SW-12	07-15-96	2.9	0.3	0.6	0.3	nd	4.0	3.8	nd	nd	nd	nd	nd	nd	0.3	8	0.8	23.2	5.6	2.3	2.7	nd	nd	13	3.2	0.19	0.21	4.75	-6.21	11.4	120
SW-12	07-15-96	3.1	0.3	0.7	0.4	nd	3.0	3.9	nd	nd	nd	nd	nd	nd	0.3	5	0.8	23.2	5.6	2.3	3.4	nd	nd	12	2.4	0.22	0.20	4.97	-6.21	11.4	120

Stream
SWI.db

Hole ID	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Molybdenum	Nickel	Selenium	Silver	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc	Mercury	Fluoride	BOD	COD	Radon VG
SW-1	nd	nd	15	nd	nd	11	nd	nd	nd	nd	360	0.9	42	nd	nd	nd	nd	15	nd	nd	nd	0.2		6	0.08	0.11	nd	21	nd
SW-2	nd	nd	9	nd	nd	6	nd	nd	1	3	390	1.1	43	nd	nd	nd	nd	7	nd	nd	2	0.3	nd	9	nd	nd	nd	66	nd
SW-3	nd	nd	12	nd	nd	8	nd	nd	nd	nd	330	0.7	34	nd	nd	nd	nd	13	nd	nd	nd	0.2	nd	6	nd	0.1	nd	22	nd
SW-4	nd	nd	7	nd	nd	7	nd	nd	nd	nd	460	0.6	99	nd	nd	nd	nd	7	nd	nd	9	0.6	nd	nd	nd	nd	nd	36	8
SW-5	nd	nd	12	nd	nd	9	nd	nd	nd	nd	330	0.6	32	nd	nd	nd	nd	13	nd	nd	nd	0.3	nd	5	nd	0.1	nd	24	nd
SW-6	nd	nd	10	nd	nd	7	nd	nd	nd	2	400	1.7	37	nd	nd	nd	nd	11	nd	nd	3	0.3	nd	15	nd	0.1	nd	26	nd
SW-7	nd	nd	9	nd	nd	7	nd	nd	nd	nd	340	1	34	nd	nd	nd	nd	10	nd	nd	2	0.3	nd	5	nd	0.1	nd	30	nd
SW-8	nd	nd	7	nd	nd	8	nd	nd	nd	nd	680	1.3	37	nd	nd	nd	nd	6	nd	nd	5	0.4	nd	29	0.12	nd	2	78	nd
SW-9	nd	nd	8	nd	nd	10	nd	nd	nd	nd	790	1.4	41	nd	nd	nd	nd	7	nd	nd	4	0.5	2	15	0.09	nd	nd	70	nd
SW-10	nd	nd	-5	nd	nd	5	nd	nd	nd	2	220	0.6	71	nd	nd	nd	nd	nd	nd	nd	nd	0.1	nd	15	nd	nd	nd	12	nd
SW-11	nd	nd	5	nd	nd	5	nd	nd	nd	3	130	0.8	67	nd	nd	nd	3	nd	nd	nd	2	0.1	nd	32	nd	nd	nd	8	nd
SW-12	nd	nd	5	nd	nd	5	nd	nd	nd	nd	280	0.3	70	nd	nd	nd	1.4	nd	nd	nd	nd	0.1	nd	14	nd	nd	nd	8	nd
SW-12	nd	nd	6	nd	nd	5	nd	nd	nd	5	270	0.5	76	nd	nd	nd	nd	nd	nd	nd	nd	0.1	nd	14	nd	nd	nd	7	nd

Stream Water Inorganics Units

Sodium	ppm
Potassium	ppm
Calcium	ppm
Magnesium	ppm
Alkalinity	ppm
Sulfate	ppm
Chloride	ppm
Reactive Silica	ppm
Ortho Phosphorous	ppm
Total phosphorous	ppm
Nitrite	ppm
Nitrates	ppm
Ammonia	ppm
Total Kjeldahl Nitrogen	ppm
Colour	TCU
Turbidity	NTU
Specific Conductivity	umhos/cm
pH	Units
TOC	ppm
Hardness (asCaCO3)	ppm
Bicarbonate	ppm
Carbonate	ppm
TDS	ppm
S. Sol.	ppm
Cation Sum	meq/L
Anion Sum	meq/L
Ion Balance	%
Langelier Index (5C)	
Saturation pH	Units
Aluminum	ppb
Antimony	ppb
Arsenic	ppb
Barium	ppb
Beryllium	ppb
Bismuth	ppb
Boron	ppb
Cadmium	ppb
Chromium	ppb
Cobalt	ppb
Copper	ppb
Iron	ppb
Lead	ppb
Manganese	ppb
Molybdenum	ppb
Nickel	ppb
Selenium	ppb
Silver	ppb
Strontium	ppb
Thallium	ppb
Tin	ppb
Titanium	ppb
Uranium	ppb
Vanadium	ppb
Zinc	ppb
Mercury	ppb
Fluoride	ppm
BOD	ppm
COD	ppm
Radon VG	Beq/l