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RESULTS OF LABORATORY ROCK TEST

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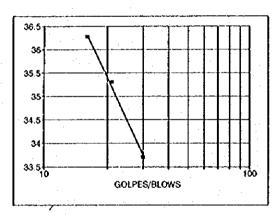


HIDROSUELOS CIA. LTDA.

ENSAYOS DE CLASIFICACION/CLASIFICATION TEST

PROYECTO/PROJEC	TRASUASES/T	RANBAS INS				HUESTRA NO. /SAMPLE	1
						PROFUNDIDAD/DEPTH:	8.50-8.80m
UBIEACION/SITE:	MG-93-3	FECHA/DATE	DIC./93	ENSAYADO/TESTEO:	6.5.	CALCULO/CALCULATED	F.U.

	No.DE GOLPES	PESO HUHEOO	PESO SECO	PESO CAPSULA		AIO3M
	No. OF BLOUS	NET NEIGHT	DRY WETCHT	CAN MEIGHT	и×	AUERAGE
1HUMEDAD/MOISTURE		53.16	48.23	18.32	16.48	
		49.00	44.50	17.51	16.67	16.58
2L1H.L[0U100/L10U10 L1H]T	30	24.26	21.22	12.20	33.70	
The state of the s	21	28.04	25.36	17.77	35.31	
	16	27.24	23. 17	11.95	36.27	
						34,49
3LIM.PLASTICO/PLASTIC LIMIT		9.08	8.42	5.42	22.00	
		10.52	9.60	5.52	22.55	
		11, 18	10. 12	5.32	22.08	22, 21



1 GRANULOMETRI	A/SIEUE ANALIZIS		
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PESO INICIAL DE C	ALCULOZÎNITIAL CA	LCULUS DETCHT :	93.33
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3/4"	0.00	0.0	100.0
1/2⁵	0.00	0.0	100.0
3∕8⁴	4.98	5.3	94.7
No. 4	11.34	12.2	87.8
No. 10	19.34	20.7	79.3
No. 40	37.60	40.3	59.7
No.200	73.92	79.2	20.8

5CLASTFICACIO	N/CLASIF (CATION
GRAUA/GRAVEL	12
arena/sand	67
FINOS/FINES	21

ILAL	31.0
LP/FIL	22.0
10/01	12.0
1.27	16.6

SUCS	SC
AASH10	A-2-6
16(86)	0
16(45)	



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MINERALOGIC ANALYSIS BY X-RAY

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CORPORACION IN INSARPOLLO E INVESTIGACION

GEOLOGICO MINERO METALURGICA,

ENTREGA DE RESULTADOS DE ANALISIS DIFRACTOMETRICOS

Muestras del área : Prov. Manabi

:94-01-25

Fecha ingreso

itado por : Ing. Fabian Vasconez

Solicitado por : Ing. Fable Tipo de muestra : Rocas

: 4673

No 1.25.

COMPOSICION ADVERALDEICA

N2 Mestra	av XV	Descripción de la muestra	ස් ස්	mayores (> 30%)	menores (< 10-30%)	tratas (< 10%)	vestigios (< 1%)
DP-93-1	7442	Testigo de Roca	Roca	Plagioclasa		Esmectita/Illita	
DP-93-2	2645	-	E	Plagioclasa, Esmec		Cuarzo	Clorita, Firita Horblenda, Clorita Pirita
DP-93-3	2646	:	E	Plagioclasa, Esmec		Cuarzo	Horblenda, Clorita
SR-93-1	2647		=		Esmectita/Illita		Horblenda, Cuarzo,
SR-93-2	2648	-	F	Plagioclasa	Esmectita/Illita		Horblenda, Cuarzo,
SR-93-3	2649	F	; ;	Esmectita/Illita		Rlagiclasa, Cuarz	Plagiclasa, CuarzoMuscovita, Pirita,
SR-93-4	2650			Esmectita/Illita		Rlagioclasa, Cuan	Magioclasa Cuar Horblenda, Clorita
Observaciones	: sət				ren de Malista responsable :	0-46 : u	2-67

/ <u>#10</u>79

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CORPORACION DE DESARROLLO E INVESTIGACION

GEOLOGICO MINERO METALURGICA

ENTREGA DE RESULTADOS DE ANALISIS DIFRACTORATIVICOS

Solicitado por : Ing. Fabian Vasconez

Tipo de mestra : Rocas

No 125. : 4673

Muestras del área : Prov. Manabi

Fecha ingreso :94-01-25

COMPOSICION NEWSPALDGICA

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SR19315	2651	Testigo d	de Roca	Plagioclasa	Esmectita/Illita		Morblenda, Cuarzo, Clorita,
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MG-93-2	2653	· :	E	plagioclasa, Esmed	o l	Cuarzo	Horblenda, Clorita, Pirita,
		a through all		tita/Illita			Mica
MG-93-3	2654	F :	E	plagioclasa, Esmec	O I	Cuarzo	Horblenda, Clorita, Pirita,
p. gg., v.u. å		***************************************		tita/Illita			Kica
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		PROFUNDIDAD SAMPLE 2130 -

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# SPECIFIC GRAVITY - NATURAL DENSITY AND POROSITY

# ESCUELA POLITECNICA NACIONAL FACULTAD DE INGENIERIA CIVIL LABORATORIO DE MECANICA DE ROCAS

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# PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994 ENVIO: 1,2 y 3

NORMA UTILIZADA: ISRM

ENSAYO DE GRAVEDAD ESPECIFICA

MUESTRA	PROF.	Gs
	(m) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	(gr/cm3)
DF-93-1	21.30-21.80	2.758
DF-93-3	22.00-22.57	2.695
MG-93-1	24.10-24.55	2.608
SR-93-4	33.00-33.50	2.768
DP-93-2	23.35-23.75	2.704
SR-93-1	48.34-48.92	2.726
SR-93-2	18.26-18.84	2.657
MG-93-3	24.20-24.52	2.735
SR-93-3	20.36-20.72	2.735
SR-93-5	8.79~ 9.77	2.723
MG-93-2	36.52-37.00	2.651

Ing. German Luna H.
JEFE DE LABORATORIO



PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994 ENVIO: 1,2 Y 3

NORMA UTILIZADA: ISRM

ENSAYOS DE DENSIDAD NATURAL

MUESTRA	PROF.	&m
	(m)	(gr/cm3)
0P-93-1	21.30-21.80	1.787
OP-93-3	22.00-22.57	1.856
MG-93-1	24.10-24.55	2.062
SR-93-4	33.00-33.50	2.038
0P-93-2	23.35-23.75	1.824
SR-93-1	48.34-48.92	2.006
SR-93-2	18.26-18.84	2.071
MG-93-3	24.20-24.52	2.000
\$R-93-3	20.36-20.72	2.074
SR-93-5	8.79-9.77	2.042
MG-93-2	36.52-37.00	2.068

NOTA: RESULTADOS EN BASE A ENSAYOS ADJUNTOS.

#### ESCUELA POLITECNICA NACIONAL FACULTAD DE INSENIERIA CIVIL LABORATORIO DE MECANICA DE ROCAS

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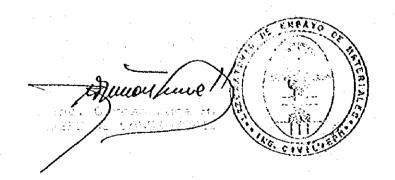
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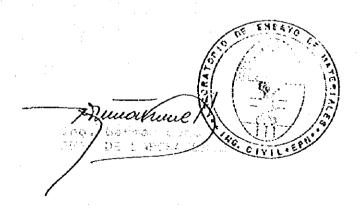
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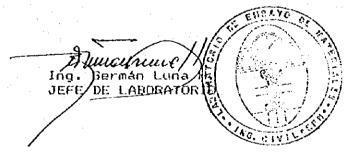
FECHA: ENERO 1994

ENVIO: 3

PESO ESPECIFICO Y POROSIDAD

NORMA: ASTM C-97. C-127. ISRM

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# UNIAXIAL COMPRESSION

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HIDROSUELOS CIA. LTDA. PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994 COMPRESION SIMPLE

<u> </u>	A
NORMA	ASTM D2938-76 (ISRM S/N)
SONDEO	DP-93-2
MUESTRA	1
PROFUNDIDAD	23.35-23.75
DESCRIPCION	LUTITA VERDOSA
DIAMETRO(cm)	8.1
ALTURA(cm)	16.2
PESO(gr)	1513.47
AREA(cm²)	51.53
VOLUMEN (cm3)	834.79
DENSIDAD SECA(gr/cm3)	1.813
CONDICION	NATURAL
VELOCIDAD DE CARGA(mm/s)	0.01
CARGA DE FISURAMIENTO(Kg)	3061
CARGA DE FALLA(Kg)	5322
ESF. FISURAMIENTO(Kg/cm²)	59.40
RESISTENCIA ULTIMA(Kg/cm²)	103.28
DESCRIPCION DE LA FALLA	PLANO INCLÍNADO +/- 20°   CON EL EJE DE CARGA

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HIDROSUELOS CIA. LTDA. PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994 COMPRESION SIMPLE

	<b>.</b>				
NORMA	ASTM D2938-76 (ISRM S/N)				
SONDEO	SR-93-3				
MUESTRA	1				
PROFUNDIDAD	20.36-20.72				
DESCRIPCION	LUTITA VERDOSA				
DIAMETRO(cm)	8.12				
ALTURA(cm)	16.24				
PESO(gr)	1835.87				
AREA(cm²)	51.78				
VOLUMEN (cm3)	840.98				
DENSIDAD (gr/cm3)	2.183				
CONDICION	NATURAL				
VELOCIDAD DE CARGA(mm/s)	0.01				
CARGA DE FISURAMIENTO(Kg)	1673				
CARGA DE FALLA(Kg)	3252				
ESF. FISURAMIENTO(Kg/cm²)	32.30				
RESISTENCIA ULTIMA(Kg/cm²)	62.80				
DESCRIPCION DE LA FALLA	PLANO PARALELOS Y PERPENDICULARES A ESTRAT.				
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# PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994

ENVIO: 3

COMPRESION SIMPLE

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NORMA	ASTM D2938-76 (ISRM S/N)
ORDEN	3
SONDEO	SR-93-5
MUESTRA	1
; FROFUNDIDAD (m)	8.79-9.00
; DESCRIPCION	: ARENISCA GRAND FIND
DIAMETRO (cm)	8.05
ALTURA (cm)	16.90
; PESO (gr)	1746.00
AREA (cm²)	1 50.90
( VOLUMEN (cm3)	1 950.14
; DENSIDAD SECA (gr/cm3)	2.030
: CONDICION	; NATUTAL
; VELOCIDAD DE CARGA (mm/s)	; Ø.01
: CARGA FISURAMIENTO (Kg)	4 6100.00
CARGA DE FALLA (Kg)	: 6850.00
: ESF. FISURAMIENTO (Kg/cm2)	119.85
¦RESISTENCIA ULTIMA (Kg/cm2)	134.59
DESCRIPCION DE LA FALLA	PLANO PERPENDICULAR A LA   ESTRATIFICACION
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## PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994

ENVIO: 3

COMPRESION SIMPLE

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NORMA	ASTM D2938-75 (ISRM S/N)
: ORDEN	3
: SONDEO	1 M6-93-2
MUESTRA	1
: PROFUNDIDAD (m)	36.52-37.00
! DESCRIPCION	: ARENISCA GRANO FINO :
: DIAMETRO (cm)	7.45
ALTURA (cm)	15.00
: FESO (gr)	1359.50
AREA (cm²)	43.59
VOLUMEN (cm3)	653.87
DENSIDAD SECA (gr/cm3)	2.095
CONDICION	NATUTAL :
; VELOCIDAD DE CARGA (mm/s)	0.01
CARGA FISURAMIENTO (Kg)	300.00
CARGA DE FALLA (Kg)	3500.00 :
: ESF. FISURAMIENTO (Kg/cm2)	4.88
;RESISTENCIA ULTIMA (Kg/cm2)	80.29
DESCRIPCION DE LA FALLA	PLANOS DE FALLA CONICA

Pluorture ing. German Luna H. JEFF DE LABBRATORIO

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### HIDROSUELOS CIA. LTDA. PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994 COMPRESION SIMPLE

NORMA	ASTM D2938-76 (ISRM S/N)
SONDEO	MG-93-3
MUESTRA	1
PROFUNDIDAD	22.24-24.52
DESCRIPCION	ARENISCA DELEZNABLE
DIAMETRO(cm)	8.1
ALTURA(cm)	16.2
PESO(gr)	1389.08
AREA(cm²)	51.53
VOLUMEN (cm3)	834.79
DENSIDAD (gr/cm3)	1.664
CONDICION	NATURAL
VELOCIDAD DE CARGA(mm/s)	0.01
CARGA DE FISURAMIENTO(Kg)	232
CARGA DE FALLA(Kg)	286
ESF. FISURAMIENTO(Kg/cm²)	4.50
RESISTENCIA ULTIMA(Kg/cm²)	5.55
DESCRIPCION DE LA FALLA	PLANOS CONJUGADOS Y PERPENDICULARES
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# STATIC DEFORMATION MODULUS AND POISSON'S RATIO

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PROYECTO TRASVASES MANABI Defor Axial 10 6 - Defor, frons * 10.6 % ္ပ -4000 !-2000 000 Deformacion unitaria

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### EMERITY TEACHER MENTAL SECTION OF THE PERSON OF THE SECTION OF THE ESCUELA POLITECNICA NACIONAL

FACULTAD DE INGENIERIA CIVIL LABORATORIO DE MECANICA DE ROCAS

#### "TRASVASES MANABI" PROYECTO

FECHA: ENERO 1994

ENVIO: 2

NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS

MUESTRA : DIAM(cm) = DF-93-2

PROF(m) =

23.35-23.75

5.005

LONG (cm) ≃

10.246

FESO(gr) =

AREA(cm2) =

19.67

365.5

1.813

DENSIDAD (gr/cm3) =

DEFORMACION LATERAL	DEFORMACION :	ESFUERZO	CARGA
1E-6	1E-6 ;	(kg/cm2)	(kg)
	1		
Ø	Ø	0.00	ø
50	-152 }	1.02	20
70	-230	1.52	30
130	-350 :	2.54	50
170	-500	3.56	70
230	-570	4.57	90
280	-830	7.62	150
220	-710	5.08	100
50	-160	0.00	Ø
140	-400 :	2.54	50
260	-650	7.62	150
33 <b>0</b>	-1040	9.15 :	180
410	-1250	11.18	220
500	-1680 ;	14.23	280
210	-310 \	0.00	Ø
- 260	-850	5.59	110
320	-1200	9.15 (	180
420	-1420	12.71	250 !
460	-1650	16.26	320
510	-1720	17.28	340
560	-1860	19.31	380
600	~2010 1	21.35	420
<b>ፊ</b> 50	-2230 ;	24.40 ;	480
760	-2520	28.46	560 1
820	-2800	32.02	630
960	-3180	36.60	720 (
1160	-3700	43.20	850 ;
1200	-4510	53.37	1050
	-4930	59.98	1180
1	-6250	73.70	1450
-1988/10 7		83.87	1650
<b>`</b>	*	100.13 ;	1970

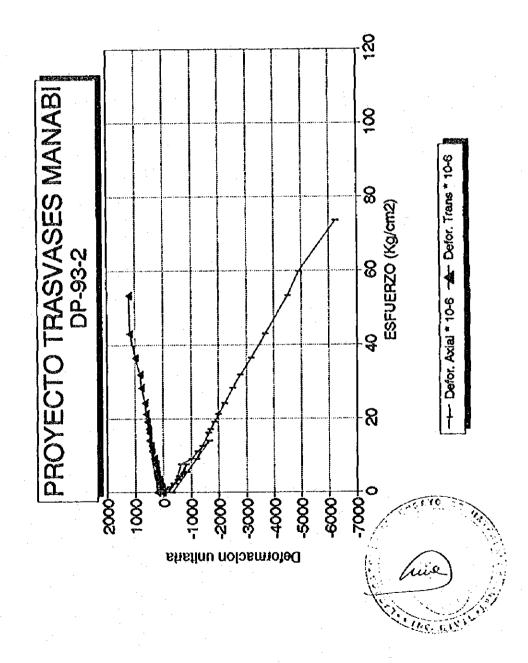
Modulo de Elasticidad (kg/cm2) =

Modulo de Poisson =

Aumortime! Ing.) German Luna H. JEFÉ DEL LABORATORI

# PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994 ENVIO : 2 NORMA UTILIZADA: ISRM COMPRESION MONOAXIAL CON MEDICION DE MODULOS



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PROYECTO COCA-CODO-SINCLAIR DP-93-3 -1 - Defor, Axial * 10-6 - 1 Defor, Trans * 10-6 .0 30 44 ESFUERZO (Kg/cm2) Deformacion unitaria

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### PROYECTO "TRASVASES MANABI"

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FECHA: ENERO 1994

ENVIO: 2

NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS

MUESTRA : SR-93-1 8.01 PROF(m) =LONG (cm) = 48.34 - 48.92 16.4

DIAM(cm) =

AREA(cm2) =

50.38

PESD(gr) =

1698.3

DENSIDAD (gr/cm3) =

2.055

+	CARGA (kg)	ESFUERZO (kg/cm2)	DEFORMACION AXIAL 1E-6	DEFORMACION LATERAL 1E-6
1	;			<b>!</b>
1	Ø	0.00	Ø :	Ø ;
1	250	4.96	-400	140 ;
1	600 ;	11.91	-780	210 ;
1	1020	20.25	-1028	250 :
:	150 ;	2.98	-290	170
1	Ø	0.00	-150	100 ;
i	650	12.90	-550	230 }
- <u>F</u>	1150	22.83	-1050	410 :
;	1350	26.80	-1150	470 :
1	1520	30.17	-1270	520 !
ŧ	2050	40.69	-1325	57Ø :
1	920 1	18,26	-970	370 (
1	440 ;	8.73	-740	300 ;
1	Ø :	0.00	-29Ø ¦	180 !
1	640	12.70	-770	220 }
•	1130	22.43	- <b>9</b> 50	270 :
ł	1410	27.99	-1100	350 ;
;	1600	31.76	-1270	400 :
ł	2050 ;	40.69	-j41Ø	430 (
	2490 (	49.42	-1590	500 :
ł	2850	56.57	-1760	600 ;
:	3250	64.51	-1960	690 :
;	3590 ;	71.26	-2140	830 ;
:	3750	74.43	-2220	880 ;
1	4200 ;	83.36	-2400	1110
:	4520	89.72	-2550)	1200 ;
1	4850 ;	96.27	-2780	1510 ;
:	5130	101.82	-2850	1960 }
;	5360 (	106.39	-2930	2600 :
	5370	106.59	-3010	

Modulo de Elasticidad (kg/cm2) =

37500 Ø.24

Modulo de Poisson =

Ing. German Luna H. JEFF DEL WABORATORIO

## PROYECTO "TRASVASES MANABI"

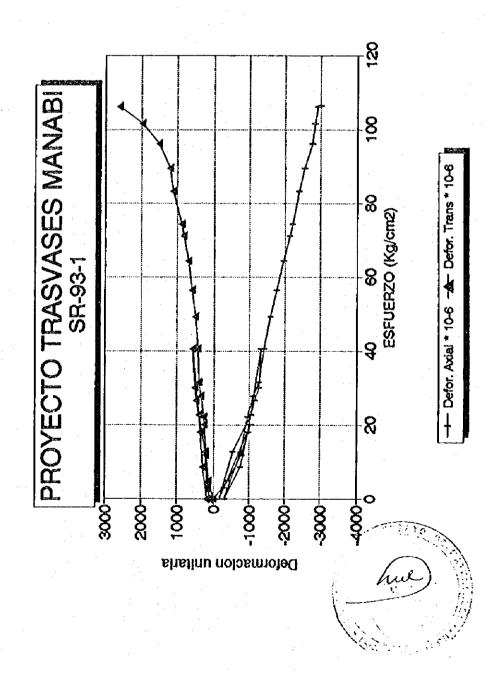
FECHA: ENERO 1994

ENVIO: 2

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NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS



### PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994

ENVIO: 2

NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS

 MUESTRA:
 SR-93-2 PROF(m) =
 18.26-18.84

 DIAM(cm) =
 8.11
 LONG (cm) =
 16.3

 PESO(gr) =
 1771.2
 AREA(cm2) =
 51.61

 DENSIDAD (gr/cm3) =
 2.105

CARGA	ESFUERZO :	DEFORMACION AXIAL	DEFORMACION   LATERAL
(kg)	(kg/cm2)	1E-6	1E-6
!			
Ø	Ø	Ø	( 0 )
200	3.87	-280	: 80 :
400	7.75	-550	150 ;
600	11.62	-670	182 ;
200	3.87	400	130 :
Ø	0.00	-40	57 (
400	7.75	-545	183 ;
700	13.56	-720	220 ;
1220	23.64	-920	240 ;
1400	27.12	-1060	250 1
950	18.41	-880	220 (
500	9.69	-530	186
; Ø	0.00	-150	99 :
; 750	14.53	-600	<b>233 !</b>
1100	21.31	-850	268 (
1750	33,90	-1120	312 !
2560	49.60	-1390	364 }
3190	61.80	-1590	400 ;
3480	67.42	-1680	430
3800	73.62	-1790	480 }
4250	82.34	-1930	490
4620	89.51	-2120	530 (
4810	93.19	-2250	560
; 5420	105.01	-2420	1 680 1
6150	119.15	-2910	; 730 ;
6930	134.26	-3200	800 ;
7150	138.53	-3370	540 }
7500	147.24	-3800	980
8150	157.90	-4670	1080

Modulo de Elasticidad (kg/cm2) = Modulo de Poisson =

Ing. German Luna H.
JEFF DEL LABORATORIO

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### PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994

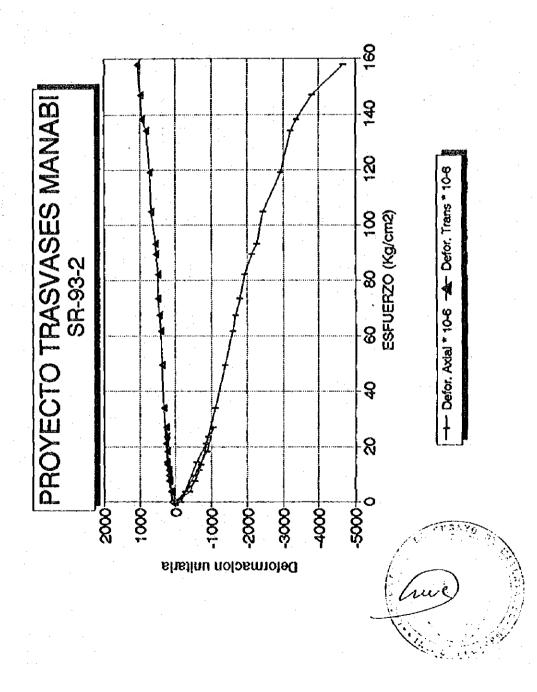
ENVIO: 2

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NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS



# PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994

ENVIO: 3

NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS

20.36-20.72 PROF(m) =SR~93-3 MUESTRA : 15.22 LONG (cm) =7.88 DIAM(cm) = 48.71 AREA(cm2) = 1618.2 PESO(gr) = 2.183 DENSIDAD (gr/cm3) =

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CARGA	ESFUERZO	DEFORMACION :	DEFORMACION : LATERAL :
(kg)	(kg/cm2)	1E-6	1E-6
4		!	1
Ø	0.00	Ø	0 ;
110	2.26	-280	1 80 1
230	4.72	-340	110 1
70	1.44	-250	; 80 ;
9	0.00	-150	50 :
! 150	3.08	-300	100 ;
230	4.72	; -380	120
370	7.60	-530	160
510	10.47	-660	174 ;
580	11.71	-740	179
730	14.99	-870	186 !
790	16.22	-935	196
; 900	18.48	-1030	204 1
1100	22.58	-1220	226 !
1200	24.64	-1310	258 ;
1450	29.77	-1600	343
1600	32.85	1780	335
1810	37.16	-2090	383
2010	41.27	-2480	400 :
2289	46.81	-3350	445
; 2510	\$ 51.53	-3930	500
2760	56.67	-4760	553
1 2900	59.54	-5260	680

Modulo de Elasticidad (kg/cm2) =

Modulo de Poisson =

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### PROYECTO "TRASVASES MANABI"

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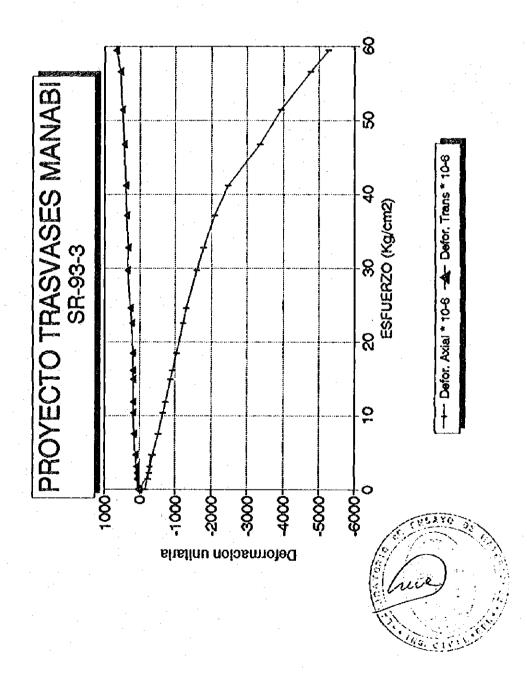
FECHA: ENERO 1994

ENVIO: 3

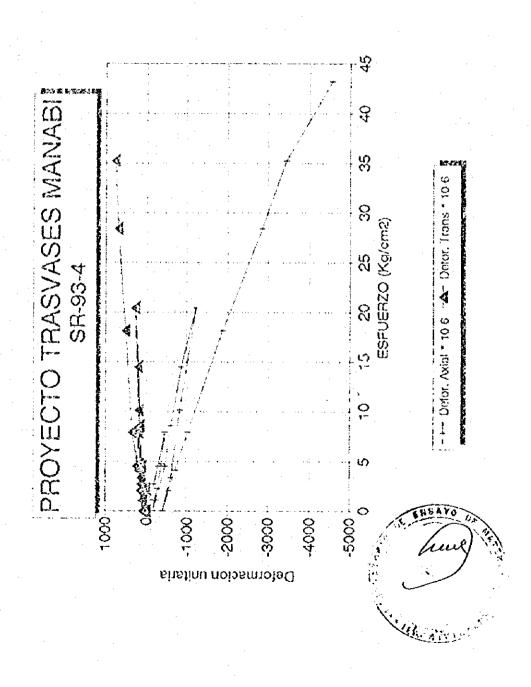
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NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS



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# PROYECTO "TRASVASES MANABI"

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FECHA: ENERO 1994

ENVIO: 3

NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS

PROF(m) = 8.79~9.00 Y 9.38-9.77 MUESTRA: SR-93-5 LONG (cm) = 8.09 DIAM(cm) = AREA(cm2) =51.38 1726.7 FESO(gr) = DENSIDAD (gr/cm3) = 2.142

DEFORMACION : DEFORMACION : ESFUERZO ! CARGA ! LATERAL | AXIAL : 1E-6 ; 1E-6 : (kg) | (kg/cm2) 0.00 Ø 30 -30 : 3.89 200 50 : -40 : 7.78 : 400 : 70 : -190 : 11.68 600 100 ; -350 : 800 : 15.57 ( 150 ; -910 : 1200 : 23.35 : 60 ; -30 : Ø 0.00 110 ; --60 9.73 500 1 -730 200 19.46 1000 : 220 -1320 27,25 1400 270 -1680 : 33.09 1700 -2200 300 38.92 2000 : -1720 : 260 25.30 1300 190 -1040 17.52 900 1.30 -90 0.00 Ø 170 --790 13.62 700 300 -157Ø ¦ 27.25 ; 1400 410 -2160 : 36.98 | 1900 ; 470 -2580 ; 42.82 ; 2200 560 3 -3160 50.60 2600 650 1 58.39 ~3980 3000 790 1 60.33 : -4800 3100 ;

Modulo de Elasticidad (kg/cm2) =

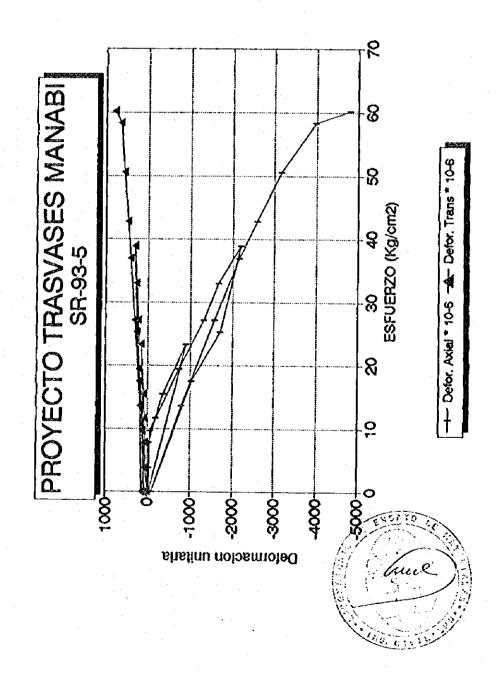
Modulo de Poisson =

16500 0.16

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# PROYECTO, "TRASVASES MANABI"

FECHA: ENERO 1994 ENVIO: 3 NORMA UTILIZADA: ISRM COMPRESION MONOAXIAL CON MEDICION DE MODULOS



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# ESCUELA POLITECNICA NACIONAL FACILITAD DE INGENIERIA CIVIL

FACULTAD DE INGENIERIA CIVIL LABORATORIO DE MECANICA DE ROCAS

## PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994

ENVIO : 3

NORMA UTILIZADA: ISRM

COMPRESION MONOAXIAL CON MEDICION DE MODULOS

MUESTRA: MG-93-2 PROF(m) = 36.52-37.00 DIAM(cm) = 8.09 LONG (cm) = 15.69 FESO(gr) = 1726.7 AREA(cm2) = 51.38 DENSIDAD (gr/cm3) = 2.142

+ 11 11 1	CARGA (kg)	ESFUERZO (	DEFORMACION AXIAL 1E-6	DEFORMACION : LATERAL : 1E-6 :	
-}-				}	
•				:	
;	Ø	0.00	Ø	0 :	
:	100	1.95	-1090	; 280 ;	
i	200	3.89	-1490	400 :	
•	300	5.84	-1750	630 ;	
į	400	7.78	-2070	780 :	-
i	200	3.89	-1780	650 ;	
i	Ø	0.00	-350	620 :	
į	300	5.84	-1690	490 }	
1	402	7.78	-1950	900 (	
:	500	9.73	-2350	981 ;	
:	600	11,68	-2790	1215	
:	700	13.62	-3300	1305 ;	
1	800	15.57	-3650	1422 ;	
1	500	9.73	-3050	1205 ;	
:	0 1	0.00	-1200	504	
i	200	3.89	-1770	430 ;	
1	500 (	9.73	-2650	<del>.</del> 826 <b>.</b>	
1	700	13.62	-3280	! 988 ;	
;	900	17.52	-3940	1079 ;	
1	1100	21.41	-4550	, 1261 ;	
1	1300	25.30	-5290	1339 ;	
1	1600	31.14	6370	1567 ;	
	2000	38.72	-7490	1892	
ŀ	2300	44.76	-8910	2223 ;	
	2500	48.66	-10000	2639 ;	
ì	2700	52.55	-10500	1	

Modulo de Elasticidad (kg/cm2) = Modulo de Poisson =

Ing.) German Luca H.
JEFF DEL LABORATORI

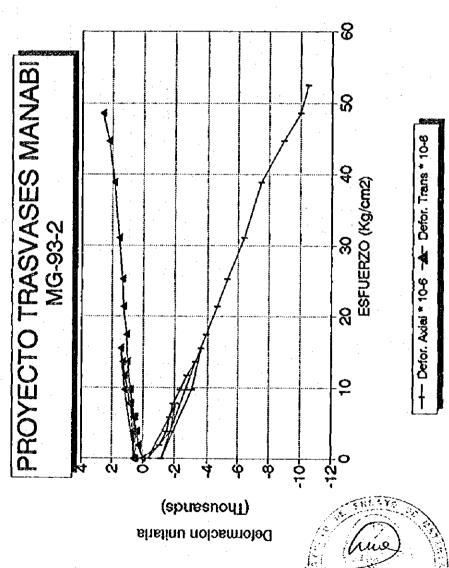
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#### PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994 ENVIO : 3 NORMA UTILIZADA:

ISRM

COMPRESION MONGAXIAL CON MEDICION DE MODULOS



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### PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994

ENVIO: 2

NORMA UTILIZADA: ISRM

COMPRESION MONDAXIAL CON MEDICION DE MODULOS

MUESTRA: MG-93-3 PROF(m) = 24.20-24.52 DIAM(cm) = 6.69 LONG (cm) = 16.625 PESD(gr) = 972.5 AREA(cm2) = 35.15 DENSIDAD (gr/cm3) = 1.664

: CARGA :	ESFUERZO	DEFORMACION AXIAL	DEFORMACION LATERAL
(kg)	(kg/cm2)	1E-6	1E-6
4	( بح مد به نیب شو سو بیم بیو بیم . ا	ه 1950 الله الله الله الله الله الله الله الل	
. 0	0.00	Ø	Ø
40	1.14	600	157
80	2.28	-1300	173 {
90	2.56	-1570	193 ;
100	2.84	-1830	257 }
110	3.13	-2200	280
120	3.41 (	-2540	383 ;
100	2.84	-2780	410
( Ø :	Ø.00	-850	; Ø ;
90	2.56	-2320	397
130	3.70	-2880	450 (
140	3,98	-3030	527 ;
160	4.55	-3310	567
170	4.84	-3460	; 583 ;
180	5.12	-3720	; 503 ;
190 ;	5.41	-4200	

Modulo de Elasticidad (kg/cm2) =

Modulo de Poisson =

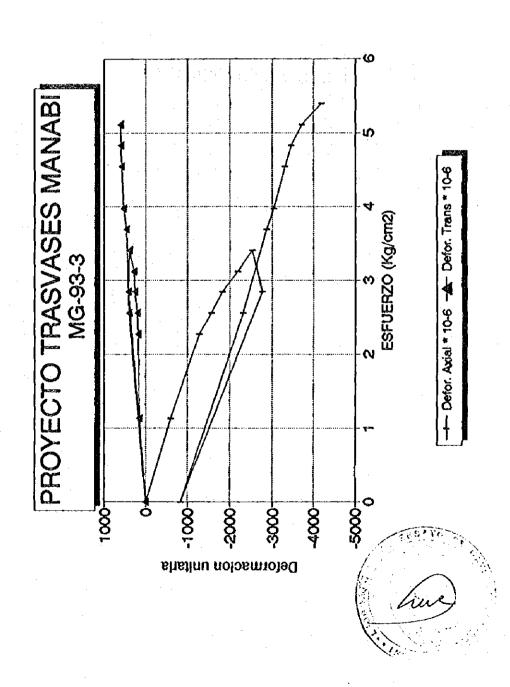
Ing. German Luna H.
JEFF DEL LABORATORIO

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ESCUELA POLITECNICA NACIONAL FACULTAD DE INGENIERIA CIVIL LABORATORIO DE MECANICA DE ROCAS

### PROYECTO "TRASVASES MANABI"

FECHA: ENERO 1994 ENVIO: 2 NORMA UTILIZADA: ISRM COMPRESION MONOAXÍAL CON MEDICION DE MODULOS



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## TENSILE STRENGTH

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#### ESCUELA POLITECNICA NACIONAL FACULTAD DE INGENIERIA CIVIL LABORATORIO DE MECANICA DE ROCAS

### PROYECTO "TRASVASES MANABI"

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TRACCCION INDIRECTA

ENVIO: 3

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FECHA: ENERO 1994

NORMA: ASTM C496-71 (ISRM M2)

ASTM D3967

SORDEO (NUESTRA)	PROFUNDIDAD (1)	: DESCRIPCION	(ce) (ce)	TIFO Potusà	: CARGA (ESFUERZO F.INIC. ; F.SEEC ; w2 ; (kg) ((kg/ce2); (gr) ; (gr) ;
SR-93-3   a	28.36-28.72 8.79-9.68 8.79-9.88 36.58-37.88	ARENISCA GRAND FIND ARENISCA GRAND FIND ARENISCA GRAND FIND ARENISCA GRAND FIND	7.81   3.69   8.88   4.13   4.18   4.18   7.47   3.99	POR ESTRATIFIC.  DIAMETRAL  DIAMETRAL  POR ESTRATIFIC.	789 : 16.34   391.80   326.80   19.16   758   14.31   448.10   362.78   21.34   1458   27.83   436.88   357.28   22.86   588   12.39   365.28   386.48   19.19

Ing.) German Luna H.
JEFE DE LABORATORIO



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### PROYECTO "TRASVASES MANABI"

ENVIO: 2 FECHA: ENERO 1994

SOLICITADO POR: HIDROSUELOS

HINCHAMIENTO EN ROCA

<u> </u>	L.,
SONDEO	DP-93-2
MUESTRA	1
PROFUNDIDAD (m)	23.35-23.75
: TIPO DE ENSAYO	CAMBIO DE VOLUMEN NULO
NORMA USADA	ISRM
ALTURA (cm)	1.95
DIAMETRO (cm)	4.16
AREA (cm2)	13.59
; PESO INICIAL (gr)	46.8
PESO FINAL (gr)	51.7
PESO SECO (gr)	41.5
HUMEDAD INICIAL (%)	12.8
HUMÉDAD FINAL (%)	24.6
PESO UNITARIO (gr/cm3)	1.766
: PESO UNITARIO SECO (gr/cm3)	1.566
; FUERZA MAXIMA DE HINCHAMIENTO (kg)	88.00
; INDICE DE PRESION DE HINCHAMIENTO (kg/cm2)	6.47
DESCRIPCION LITOLOGICA	LIMOLITA
: INCLINACION DE LA FOLACION CON EL EJE	NO ESTRATIFICACION
	+

Ing German Luna H.

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#### PROYECTO "TRASVASES_MANABI"

ENVIO: 2 FECHA: ENERO 1974

SOLICITADO POR: HIDROSUELOS

HINCHAMIENTO EN ROCA

i	
SONDEO	SR-93-1
MUESTRA	1
PROFUNDIDAD (m)	48.34-48.92
† TIFO DE ENSAYO	CAMBIO DE VOLUMEN NULO
NORMA USADA	ISRM
ALTURA (cm)	2.03
DIAMETRO (cm)	6.28
; AREA (cm2)	30.97
PESO INICIAL (gr)	123.9
; PESO FINAL (gr)	124.0
PESO SECO (gr)	98.2
: HUMEDAD INICIAL (%)	26.2
; HUMEDAD FINAL (%)	26.3
PESO UNITARIO (gr/cm3)	1.975
! / FESO UNITARIO SECO (gr/cm3)	1.566
: FUERZA MAXIMA DE HINCHAMIENTO (kg)	8.00
: INDICE DE PRESION DE HINCHAMIENTO (kg/cm2)	0.26
DESCRIPCION LITOLOGICA	: ARENISCA DE GRANO FINO
: INCLINACION DE LA FOLACION CON EL EJE	NO ESTRATIFICACION
+	<u> </u>

uno brien Ing.) German Luna JEFR DE LAHORATORI

# PROYECTO "TRASVASES MANABI"

ENVIO: 2 FECHA: ENERO 1994

SOLICITADO FOR: HIDROSUELOS

HINCHAMIENTO EN ROCA

SONDEO	SR-93-2
! MUESTRA	1
; FROFUNDIDAD (m)	18.26-18.84
TIPO DE ENSAYO	CAMBIO DE VOLUMEN NULO
NORMÁ USADA	ISKM
ALTURA (cm)	1.97
: DIAMETRO (cm)	6.28
AREA (cm2)	30.97
: FESO INICIAL (gr)	130.6
; PESO FINAL (gr)	131.4
; PESO SECO (gr)	115.0
HUMEDAD INICIAL (%)	13.6
HUMEDAD FINAL (%)	14.3
; PESO UNITARIO (gr/cm3)	2.140
; PESO UNITARIO SECO (gr/cm3)	1.885
: FUERZA MAXIMA DE HINCHAMIENTO (kg)	2.52
: INDICE DE PRESION DE HINCHAMIENTO (kg/cm2)	8.08
: DESCRIPCION LITOLOGICA	ARENISCA GRANO FINO
: INCLINACION DE LA FOLACION CON EL EJE	NO ESTRATIFICACION
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Ing. German Luna H. JEFE DE LABORATORIO

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ESCUELA POLITECNICA NACIONAL

ESCUELA POLITECNICA NACIONAL
FACULTAD DE INGENIERIA CIVIL
LABORATORIO DE MECANICA DE ROCAS

# PROYECTO "TRASVASES MANABI"

ENVIO: 3 FECHA: ENERO 1974 SOLICITADO FOR: HIDROSUELOS HINCHAMIENTO EN ROCA

SONDEO	SR-93-3
MUESTRA	1 ;
FROFUNDIDAD (m)	20.36-20.72
TIPO DE ENSAYO	CAMBIO DE VOLUMEN NULO :
NORMA USADA	ISKM
ALTURA (cm)	2.03
DIAMETRO (cm)	6.26
AREA (cm2)	30.78
PESO INICIAL (gr)	139.1
PESO FINAL (gr)	132.6
PESO SECO (gr)	109.3
HUMEDAD INICIAL (%)	19.0
: BUMEDAD FINAL (%)	21.5
; PESO UNITARIO (gr/cm3)	2.082
PESO UNITARIO SECO (gr/cm3)	1.749
FUERZA MAXIMA DE HINCHAMIENTO (kg)	54.00
INDICE DE PRESION DE HINCHAMIENTO (kg/cm2)	1.75
DESCRIPCION LITOLOGICA	: ARENISCA GRANO FINO
: INCLINACION DE LA FOLACION CON EL EJE	; PERFENDICULAR
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Ing. Derman Luna H.
JEFE DE LABORATONIO

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#### ESCUELA POLITECNICA NACIONAL FACULTAD DE INGENIERIA CIVIL LABORATORIO DE MECANICA DE ROCAS

#### Presidente es de la location de la company de la company de la company de la company de la company de la compa

### PROYECTO "TRASVASES MANABI"

ENVIO: 3 FECHA: ENERO 1994 EOLICITADO POR: HIDROSUELOS

HINCHAMIENTO EN ROCA

SONDEO	: SR-93-5
; MUESTRA	. 1
FROFUNDIDAD (p)	8.79-9.00
TIPO DE ENSAYO	CAMBIO DE VOLUMEN NULO
ADARU AMAGN	: ISKA
ALTURA (cm)	2.82
DIAMETRO (cm)	6,28
AREA (cm2)	30.97
PESO INICIAL (gr)	127.6
: FESO FINAL (gr)	128.7
PESO SECO (gr)	104.8
HUMEDAD INICIAL (%)	21.8
HUMEDAD FINAL (%)	22.8
PESO UNITARIO (gr/cm3)	2.039
PESO UNITARIO SECO (gr/cm3)	1.675
FUERZA MAXIMA DE HINCHAMIENTO (kg)	3.00
! INDICE DE PRESION DE HINCHAMIENTO (kg/cm2)	0.10
DESCRIPCION LITOLOGICA	ARENISCA DE GRANO FINO
: INCLINACION DE LA FOLACION CON EL EJE	PERPENDICULAR
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LABORATORIO DE MECANICA DE ROCAS

## PROYECTO "TRASVASES MANABI"

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**ENERO 1994** FECHA:

HIDROSUELOS SOLICITADO POR:

HINCHAMIENTO EN ROCA

SONDEO	MG-93-2
; MUESTRA	1
; PROFUNDIDAD (m)	36.52-37.00
; TIPO DE ENSAYO	CAMBIO DE VOLUMEN NULO
: NORMA USADA	ISRM
ALTURA (cm)	2.02
DIAMETRO (cm)	6.27
AREA (cm2)	30.88
PESO INICIAL (gr)	129.2
PESO FINAL (gr)	130.9
PESO SECO (gr)	108.8
: HUMEDAD INICIAL (%)	18.7
HUMEDAD FINAL (%)	: 20.3
PESO UNITARIO (gr/cm3)	: 2.072
; PESO UNITARIO SECO (gr/cm3)	1.744
: FUERZA MAXIMA DE HINCHAMIENTO (kg)	5.00
: INDICE DE PRESION DE HINCHAMIENTO (kg/cm2)	9.16
DESCRIPCION LITOLOGICA	: ARENISCA GRANO FINO
: INCLINACION DE LA FOLACION CON EL EJE	NO ESTRATIFICACION
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### PROYECTO "TRASVASES MANABI"

ENVIO: 2 FECHA: ENERO 1994 SOLICITADO POR: HIDROSUELOS HINCHAMIENTO EN ROCA

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SONDEO	MG-93-3
MUESTRA	1
PROFUNDIDAD (m)	24.28-24.52
TIPO DE ENSAYO	CAMBIO DE VOLUMEN NULO
NORMA USADA	ISRM
ALTURA (cm)	2.01
DIAMETRO (cm)	6.31
AREA (cm2)	31.27
PESO INICIAL (gr)	126.9
PESO FINAL (gr)	129.5
PESO SECO (gr)	104.9
HUMEDAD INICIAL (%)	21.8
HUMEDAD FINAL (%)	23.5
FESO UNITARIO (gr/cm3)	2.019
PESO UNITÁRIO SECO (gr/cm3)	1.669
FUERZA MAXIMA DE HINCHAMIENTO (kg)	7.00
INDICE DE PRESION DE HINCHAMIENTO (kg/cm2)	0.22
DESCRIPCION LITOLOGICA	ARENISCA GRANO FINO
INCLINACION DE LA FOLACION CON EL EJE	NO ESTRATIFICADA
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