LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

DOTD 03-22-4197
Metric
4/98

LABORATORY MOISTURE - DENSITY RELATIONSHIP
DOTD TR 418 - Method G
(Metric)

PROJECT NO: _____ DATE: _____ LAB NO: _____

TYPE ADDITIVE: _____ TYPE SOIL: _____ SAMPLE NO: _____

TESTED BY: _____ CHECKED BY: _____

SIEVE	*** *** ***		Mass Retained, g	+25.0 mm Replacement $B_n/\{1 - (A/C)\}$	Prorated Mass Ret., g (F)	% Retained (F/E) x 100 (G)	Adjusted Mass, g (G x 8000) ÷ 100	Accumulated Mass g
25.0 mm	A							
19.0 mm	B_1			→				
12.5 mm	B_2			→				
4,75 μm	B_3			→				
Subtotal	C	$A+B_1+B_2+B_3$	→					
4.75 μm	D		→					8000
Total	E	C + D	→			100	K = 8000	

CURVE POINT NO.	***		1	2	3	4	5	6
WATER ADDED, mL	H	See Calculations						
MASS MOLD, BASE (if applicable) & WET MATL., g	I							
MASS MOLD & BASE (if applicable), g	J							
MASS WET COMPACTED MATERIAL, g	K	I - J						
MASS OF PAN & DRY MATERIAL, g	L							
MASS OF PAN, g	M							
MASS OF DRY MATERIAL, g	DW	L - M						
MASS OF WATER, g	WW	K - DW						
WET DENSITY, kg/m³	WWD	$\frac{K}{2.124}$						
MOISTURE CONTENT, %	MC	(WW/DW) x 100						
DRY DENSITY, kg/m³	DWD	$\frac{WWD}{100 + MC} \times 100$						

REMARKS: _____