

WEST VIRGINIA DIVISION OF HIGHWAYS
MATERIALS CONTROL, SOILS & TESTING DIVISION



LAB NUMBER _____
 AUTHORIZATION NUMBER _____
 PROJECT NUMBER _____
 DISTRICT _____
 LOT NUMBER _____
 ITEM NUMBER _____

FORM T-316
 MP 207.07.20
 REV. 10-18

Contract ID _____

GAUGE NUMBER		TEST NUMBER		1	2	3	4	5
MANUFACTURER'S STANDARDS		DATE						
DENSITY		STATION NUMBER	ft.					
MOISTURE		OFFSET	ft.					
GAUGE STANDARD COUNTS		DEPTH BELOW GRADE	ft.					
DENSITY		LIFT THICKNESS	in.					
MOISTURE		DEPTH OF SOURCE	in.					
DB FROM TABLES	Field Density Moisture	DA	TOTAL DRY DENSITY	lb/ft ³				
		MA	MOISTURE	lb/ft ³				
		DB	DRY DENSITY -3/4	lb/ft ³				
		MB	MOISTURE	%				
MB = MA (100) DB		PLUS 3/4 MATERIAL DETERMINATION	CA	EXC. MATERIAL + PAN	grams			
CC = CA - CB			CB	PAN	grams			
CF = CD - CE			CC	EXCAVATED MAT.	grams			
CG = CF (100) CC			CD	PLUS 3/4 MAT. + PAN	grams			
PC = PA - PB			CE	PAN	grams			
PD = PC (0.066)			CF	PLUS 3/4 MAT.	grams			
PE = PD (100) 100 + MB			CG	PLUS 3/4 MAT.	%			
			CH	SPECIFIC GRAVITY				
				RERUN	RERUN	RERUN	RERUN	RERUN
RERUN PROCTOR PE (RERUN) = $\frac{PD (100)}{100 + SG}$	ONE POINT PROCTOR	PA	WEIGHT SOIL & MOLD	grams				
		PB	MOLD	grams				
		PC	WEIGHT OF SOIL	grams				
		PD	WET DENSITY	lb/ft ³				
		PE	DRY DENSITY	lb/ft ³				
SC = SA - SB SE = SD - SB SF = SC - SE SG = SF (100) SE DE = DB (100) DC	STOVE DRIED MOISTURE	SA	WET WEIGHT + PAN	grams				
		SB	PAN	grams				
		SC	WET WEIGHT	grams				
		SD	DRY WEIGHT + PAN	grams				
		SE	DRY WEIGHT	grams				
		SF	MOISTURE	grams				
		SG	MOISTURE	%				
$\bar{X} = \frac{\sum DE}{5}$	MOIST. EVAL.	OA	OPTIMUM MOISTURE	%				
		OB	PLUS / MINUS TOLER.					
		OC	PASS / FAIL					
$QL = \frac{\bar{X} - T}{R}$	DEN EVAL	DC	MAXIMUM DENSITY	lb/ft ³				
		DE	RELATIVE DENSITY	%				
R = Range Range is Highest DE – Lowest DE	LOT EVALUATION	\bar{X}	AVERAGE DE	%	INSPECTOR'S NAME:			
		T	TARGET	%				
		QL	QUALITY INDEX		INSPECTOR'S SIGNATURE:			
		DF	WITHIN TOLERANCE	%				
		DG	MIN. FOR 100% PAY	%	PROJECT'S EVALUATION			
		DH	PASS / FAIL	YES				
		CHECKED BY:						
		DATE:						

DF is found from the **QL** Tables