Delaware Department of Transportation
Materials and Research Laboratory
P.O. Box 778 Dover, DE 19903
302-760-2400

PORTLAND CEMENT, TYPE 1, REPORT

Lab No.:	C-_____	Silo:	_____	Contract No:	_____
Sampled by:	_____	Tanker:	_____	DelDOT Sections:	801 & 801
Sampled at:	_____	Temperature, F:	_____	Date Sampled:	_____
Manufacturer:	_____	Quantity, tons:	_____	Date Received:	_____
Low Alkali Cement:	_____				

AASHTO	Test Performed	Specifications	Units	Results
	Physical Tests			
T-137	Air Content……	≤12	%	_____
T-153	Blaine fineness…….	260-420	M^2/kg	_____
T-129	Normal Consistency W/C Ratio……..	-----	-----	_____
T-107	Autoclave Expansion……	≤0.80	%	_____
T-106	Mortar Cube Strength, 7 day……	≥ 2800	psi	_____
T-106	Mortar Cube Strength, 28 day…….	------	psi	_____
T-154	Gillmore Initial Set Time…….	≥60	minutes	_____
T-154	Gillmore Final Set Time…….	≤600	minutes	_____

Technician: _____ Date Completed: _____

	Chemical Tests (XRF):			
T-105	Silicon Dioxide…….	-------	Wt. %	_____
T-105	Aluminum Oxide……..	-------	Wt. %	_____
T-105	Ferric Oxide……..	-------	Wt. %	_____
T-105	Calcium Oxide……..	-------	Wt. %	_____
T-105	Magnesium Oxide…….	6.0	Wt. %	_____
T-105	Sulfur Trioxide……..	3.5	Wt. %	_____
T-105	Sodium Oxide……	-------	Wt. %	_____
T-105	Potassium Oxide……	-------	Wt. %	_____
T-105	Maganic Oxide……..	-------	Wt. %	_____
T-105	Phosphorous Pentoxide……...	-------	Wt. %	_____
T-105	Titanium Dioxide……..	-------	Wt. %	_____
T-105	Strontium Oxide……	-------	Wt. %	_____
T-105	Loss on Ignition…….	3.0	Wt. %	
M-85	Tricalcium Silicate (C3S)……..	-------	Wt. %	_____
M-85	Dicalcium Silicate (C2S)……..	-------	Wt. %	_____
M-85	Tricalcium Aluminate (C3A)……..	-------	Wt. %	_____
M-85	Tetracalcium Aluminoferrite (C4AF)…….	-------	Wt. %	_____
M-85	Total Alkalies (as Sodium Oxide)……..	-------	Wt. %	_____

Technician: _____ Date Completed: _____

Remarks:

In conformance with the specifications of AASHTO M-85 this sample of cement is _____

Lab Supervisor: _____ Date: _____ Lab Manager: _____ _____

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