



2011

Product Data Sheet
Plant: Mill Point

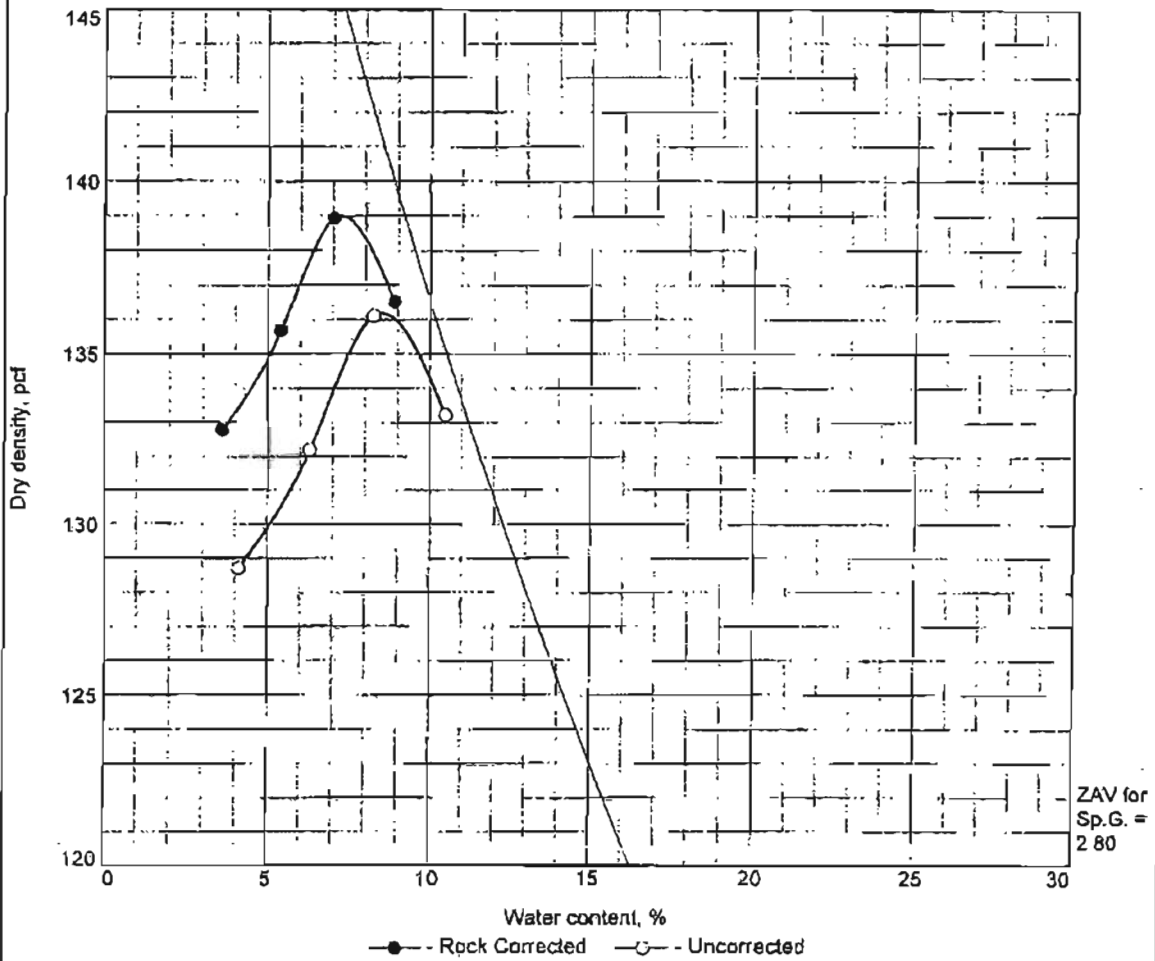
I. GEOLOGICAL FORMATION: HILLSDALE LIMESTONE

II. CHEMICAL ANALYSIS (March 2011) :

Silica	as SiO2	10.0%	Calcium	25.20%	as CaCO3	62.9%
Iron	as Fe2O3	1.9%	Magnesium	5.40%	as MgCO3	18.8%
Aluminum	as Al2O3	4.4%	Calcium Carbonate Equiv.		CCE	85.2%
Sulfur	as S	0.06%				

III. QUALITY DATA:			Product											
TEST	TEST DATE		1	3	4	57	67	8	Sand	LIME				
* SPECIFIC GRAVITY *														
BULK (ASPHALT)	3/11		2.686	2.697	2.724	2.685	2.684	2.659	2.631	2.538				
BULK - SSD (CONCRETE)	3/11		2.714	2.728	2.748	2.716	2.715	2.694	2.689	2.617				
APPARENT	3/11		2.762	2.783	2.791	2.770	2.770	2.757	2.793	2.757				
% ABSORPTION	3/11		1.0%	1.2%	0.9%	1.1%	1.2%	1.3%	2.2%	3.1%				
* UNIT WEIGHT *														
DRY RODDED (LBS/CUBIC FT)	3/11		90.5	94.9	94.8	97.5	96.2	93.8	105.8	90.4				
DRY RODDED (LBS/CUBIC YARD)	3/11		2443.5	2562.3	2559.6	2632.5	2597.4	2532.6	2856.6	2783.7				
DRY RODDED (% VOIDS)	3/11		46.0%	43.6%	44.3%	41.8%	42.6%	43.5%	35.6%	42.9%				
DRY RODDED (Kg/Cubic Meter)	3/11		1450	1520	1519	1562	1541	1503	1695	1448				
VTM-5 % VOIDS IN STONE SAND	3/11													
ASTM C1252 % VOIDS (METH B)	3/11								51.1%	51.4%				
ASTM C1252 % VOIDS (METH C)	3/11								39.6%	47.0%				
ASTM D4791 % F & E (3:1)	3/11				27.0%	14.5%	26.4%	11.6%						
* LOS ANGELES DEGRADATION *														
GRADING A % LOSS	3/11	16.1%												
GRADING B % LOSS	3/11	15.3%												
GRADING C % LOSS	3/11	17.2%												
SOUNDNESS % LOSS (Magnesium Sulfate)														
SOUNDNESS % LOSS (Sodium Sulfate)	3/11		2.6%	2.6%	2.3%	1.7%	1.4%	1.2%	2.8%	2.8%				
Surface Treatment Rate of Application														
Stone (lb/sq yd)														
Emulsion (gal/sq yd)														
* SUPERPAVE *														
ASTM C1252 % VOIDS (METH A)	3/11								46.0%	47.6%				
AASHTO T 176 SAND EQUIVALENT	3/11								57	30				
ASTM D4791 % F & E (5:1)	3/11			0.4%	0.0%	2.2%	1.8%							

COMPACTION TEST



Test specification: AASHTO T 99 Method D Standard
 ASTM D 4718-87/AASHTO T 224-88 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	Pl	% > 3/4 in.	% < No.200
	USCS	AASHTO						
-	-	-	-	-	-	-	16.9	..

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 139.0 pcf	136.2 pcf	307.01 aggregate
Optimum moisture = 7.2 %	8.5 %	

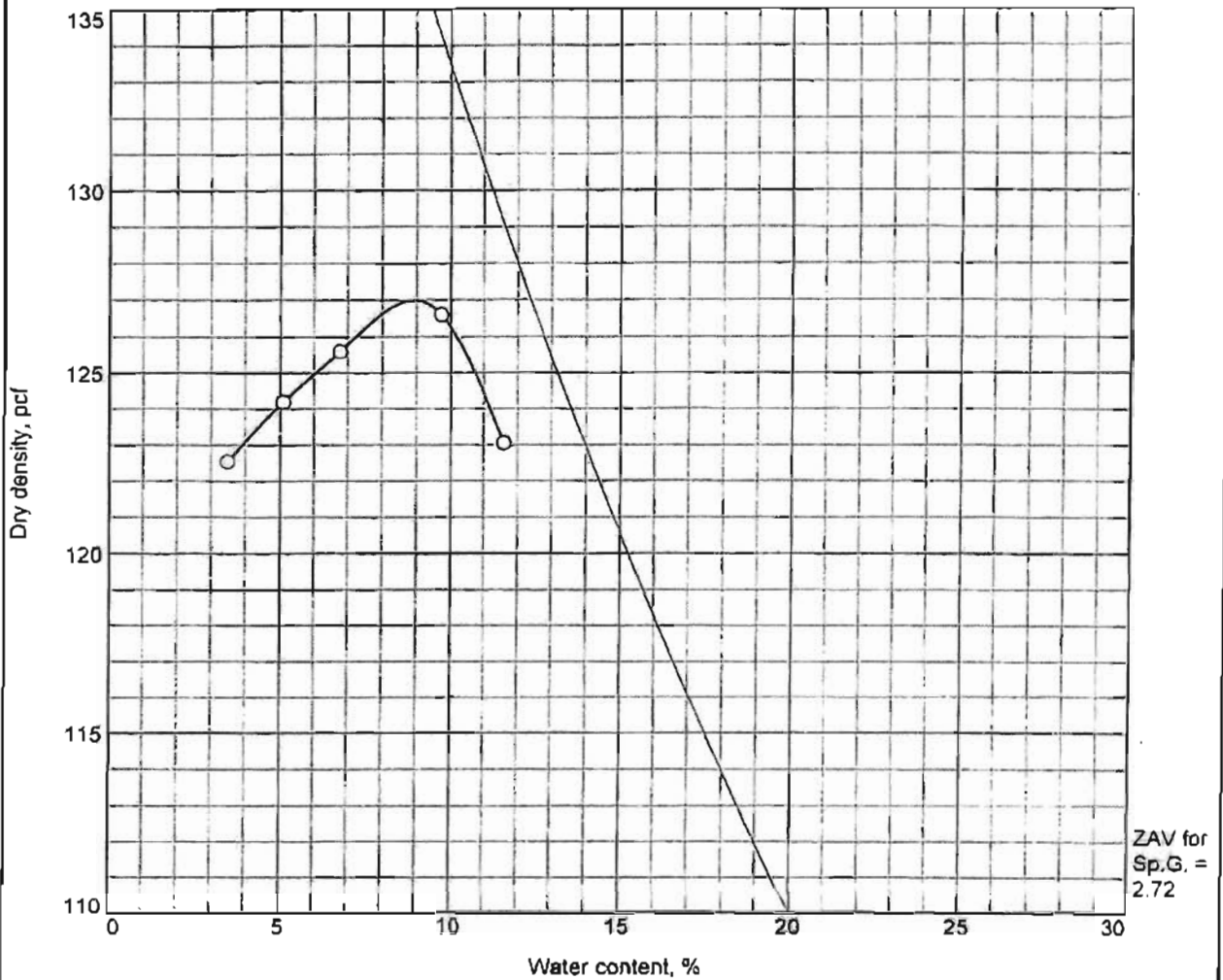
Project No. K62-063T Client: Boxley Materials Company Project: Laboratory testing Sample Source: Mill Point Depth: - Sample No.: 107272	Remarks: June 15, 2009 Assumed sp. gr. of +3/4": 2.72
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Figure

Assumed sp. gr. for ZAV: 2.80

COMPACTION TEST



Test specification: AASHTO T 99 Method D Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 In.	% < No.200
	USCS	AASHTO						
--	--	--	--	--	--	--	1.6	--

TEST RESULTS	MATERIAL DESCRIPTION
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Maximum dry density = 127.0 pcf Optimum moisture = 8.9 %	307-02 aggregate
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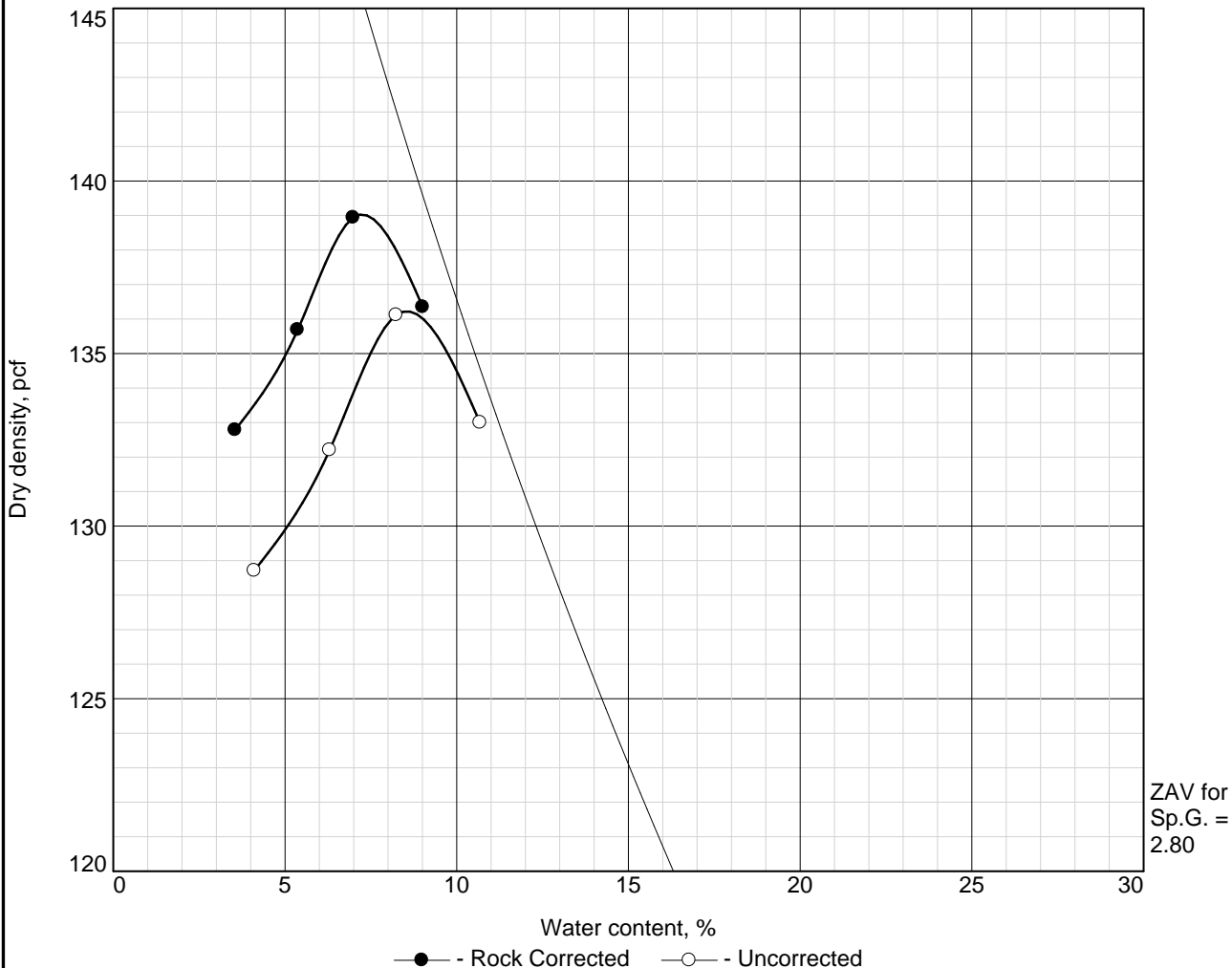
Project No. K62-063T Client: Boxley Materials Company Project: Laboratory testing Sample Source: Mill Point Depth: -- Sample No.: 107273	Remarks: July 10, 2009
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Figure

Assumed sp. gr. for ZAV: 2.75

COMPACTION TEST



Test specification: AASHTO T 99 Method D Standard
 ASTM D 4718-87/AASHTO T 224-86 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
--	--	--	--	--	--	--	16.9	--

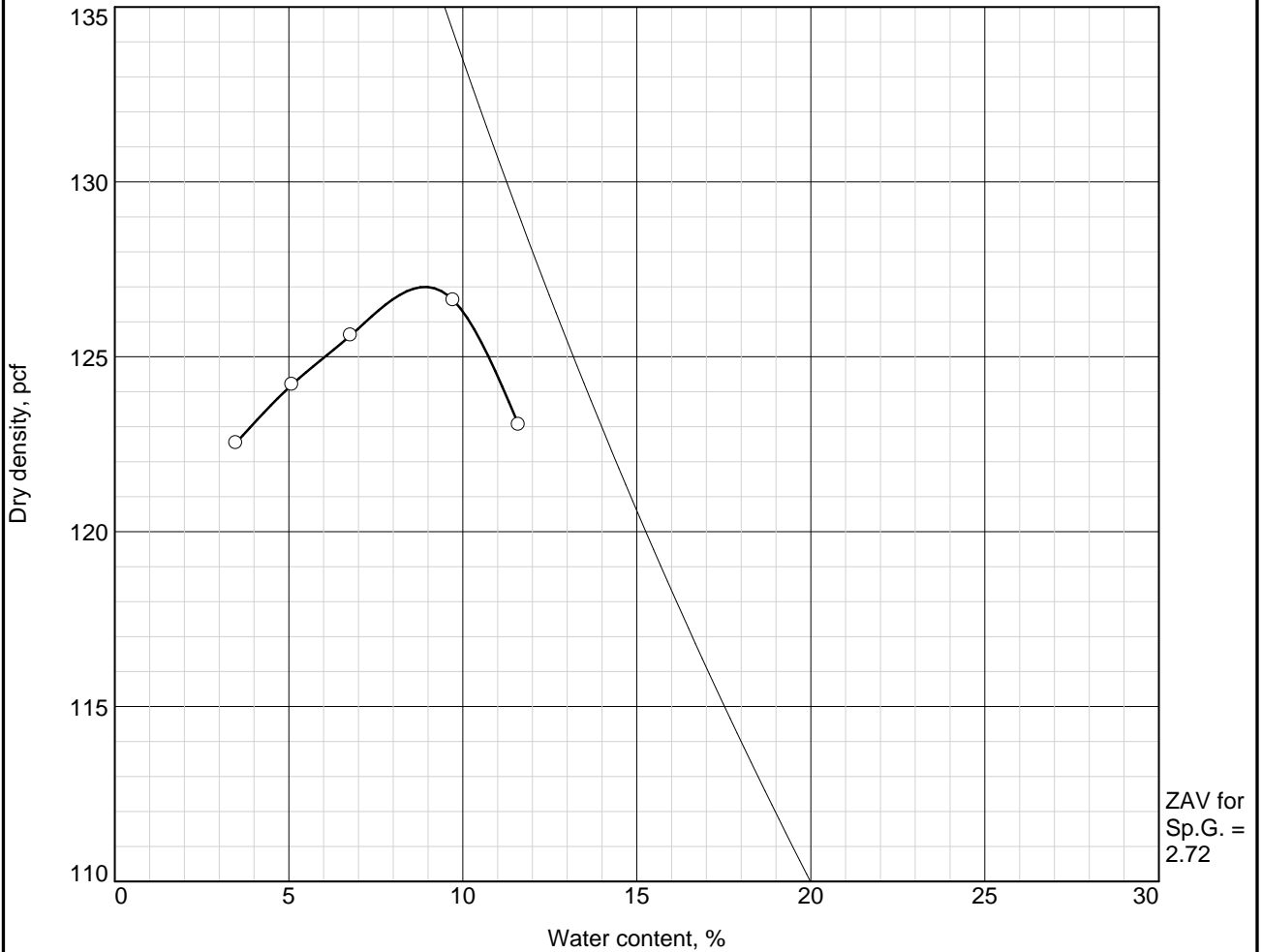
ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 139.0 pcf	136.2 pcf	307-01 aggregate
Optimum moisture = 7.2 %	8.6 %	

Project No. K62-063T Client: Boxley Materials Company Project: Laboratory testing <input type="checkbox"/> Sample Source: Mill Point Depth: -- Sample No.: 107272	Remarks: June 15, 2009 Assumed sp. gr. of +3/4": 2.72
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Assumed sp. gr. for ZAV: 2.80

COMPACTION TEST



Test specification: AASHTO T 99 Method D Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
--	--	--	--	--	--	--	1.6	--

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 127.0 pcf Optimum moisture = 8.9 %	307-02 aggregate
Project No. K62-063T Client: Boxley Materials Company Project: Laboratory testing ○ Sample Source: Mill Point Depth: -- Sample No.: 107273	Remarks: July 10, 2009
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Assumed sp. gr. for ZAV: 2.80