



2011

Product Data Sheet  
Plant: Beckley

I. GEOLOGICAL FORMATION: SANDSTONE

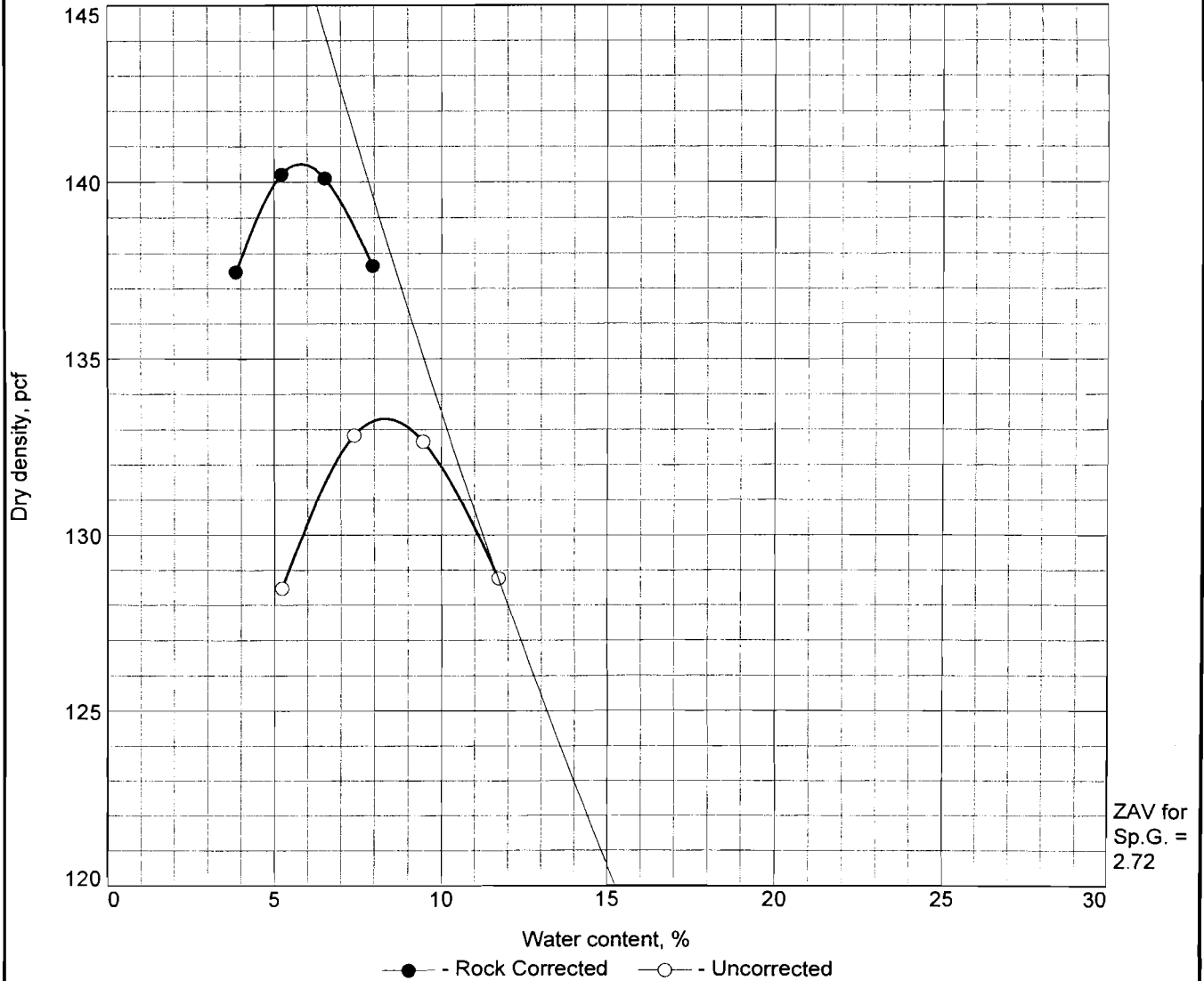
II. CHEMICAL ANALYSIS ( March 2011 ) :

Silica	as SiO <sub>2</sub>	85.2%	Calcium	as CaO	0.3%
Iron	as Fe <sub>2</sub> O <sub>3</sub>	2.0%	Magnesium	as MgO	0.6%
Aluminum	as Al <sub>2</sub> O <sub>3</sub>	5.8%	Sulphur	as S	<0.05%

III. QUALITY DATA:

			Product												
TEST	TEST DATE		1's	3's	57	68	8	Sand							
<b>* SPECIFIC GRAVITY *</b>															
BULK (ASPHALT)	2/11		2.579	2.561	2.545	2.548	2.529	2.561							
BULK - SSD (CONCRETE)	2/11		2.616	2.600	2.589	2.605	2.580	2.616							
APPARENT	2/11		2.677	2.665	2.662	2.702	2.664	2.711							
% ABSORPTION	2/11		1.4%	1.5%	1.7%	2.2%	2.0%	2.2%							
<b>* UNIT WEIGHT *</b>															
DRY RODDED (LBS/CUBIC FT)	2/11		93.4	94.1	91.5	93.5	92.6	105.0							
DRY RODDED (LBS/CUBIC YARD)	2/11		2521.8	2541	2471	2525	2500	2835							
DRY RODDED ( % VOIDS )	2/11		42.0%	41.7%	42.4%	41.2%	41.3%	34.3%							
DRY RODDED (Kg/Cubic Meter)	2/11		11.3	11.3	11.4	11.1	11.2	9.3							
VTM-5 % VOIDS IN STONE SAND															
ASTM C1252 % VOIDS (METH B)	2/11							55.1%							
ASTM C1252 % VOIDS (METH C)	2/11							38.8%							
ASTM D4791 % F & E (3:1)	2/11			11.1%	22.1%	28.7%	33.3%								
<b>* LOS ANGELES DEGRADATION *</b>															
GRADING A % LOSS	2/11	33.8%													
GRADING B % LOSS	2/11	32.1%													
GRADING C % LOSS	2/11	34.4%													
SOUNDNESS % LOSS (Magnesium Sulfate)															
SOUNDNESS % LOSS (Sodium Sulfate)			1.9%	1.9%	2.2%	1.7%	5.5%								
<b>*Surface Treatment Rate of Application*</b>															
Stone (lb/sq yd)															
Emulsion (gal/sq yd)															
<b>* SUPERPAVE *</b>															
ASTM C1252 % VOIDS (METH A)	2/11							50.5%							
AASHTO T 176 SAND EQUIVALENT	2/11							52							
ASTM D4791 % F & E (5:1)	2/11			0.6%	2.1%	1.5%	1.3%								

# 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						
--	--	--	--	--	--	--	36.9	--

Assumed sample sp. gr. for ZAV: 2.72

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 140.5 pcf	133.3 pcf	307-01 aggregate
Optimum moisture = 5.8 %	8.3 %	

**Project No.** K62-063T    **Client:** Boxley Materials Company  
**Project:** Laboratory testing

○ **Sample Source:** Beckley    **Depth:** --    **Sample No.:** 107239

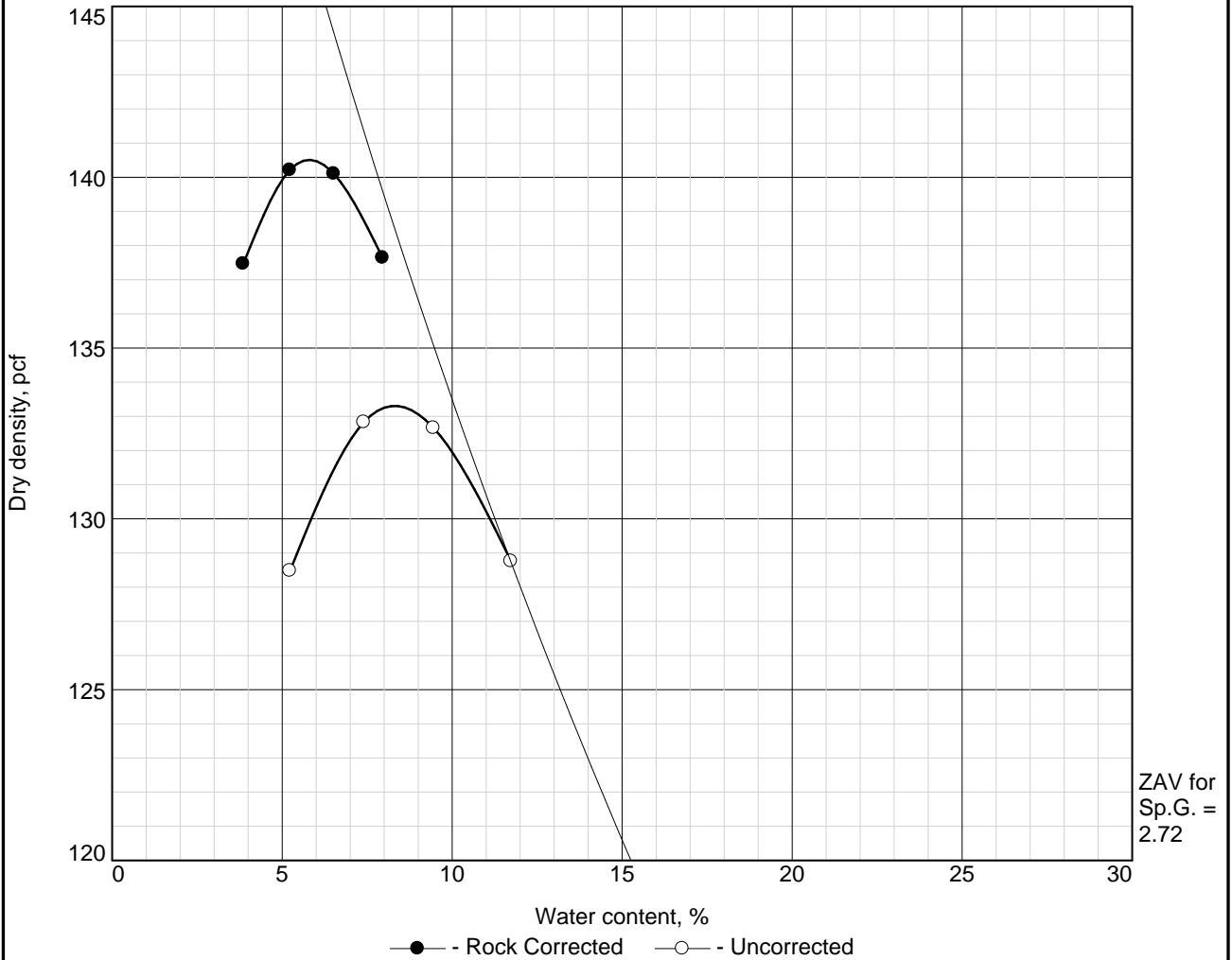
**Remarks:**  
 May 1, 2009  
 Assumed sp. gr. of +3/4": 2.72

NOTE from Sec. 1.3: "(AASHTO T-99) applies to soil mixtures that have...30% or less retained on the 3/4" sieve."

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**Figure**

# 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						
--	--	--	--	--	--	--	36.9	--

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 140.5 pcf	133.3 pcf	307-01 aggregate
Optimum moisture = 5.8 %	8.3 %	

<b>Project No.</b> K62-063T <b>Client:</b> Boxley Materials Company <b>Project:</b> Laboratory testing  <b>Sample Source:</b> Beckley <b>Depth:</b> -- <b>Sample No.:</b> 107239	<b>Remarks:</b> May 1, 2009 Assumed sp. gr. of +3/4": 2.72  NOTE from Sec. 1.3: "(AASHTO T-99) applies to soil mixtures that have...30% or
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Assumed sp. gr. for ZAV: 2.75