



2011

Product Data Sheet  
Plant: Lewisburg

I. GEOLOGICAL FORMATION: PICKAWAY AND UNION LIMESTONE

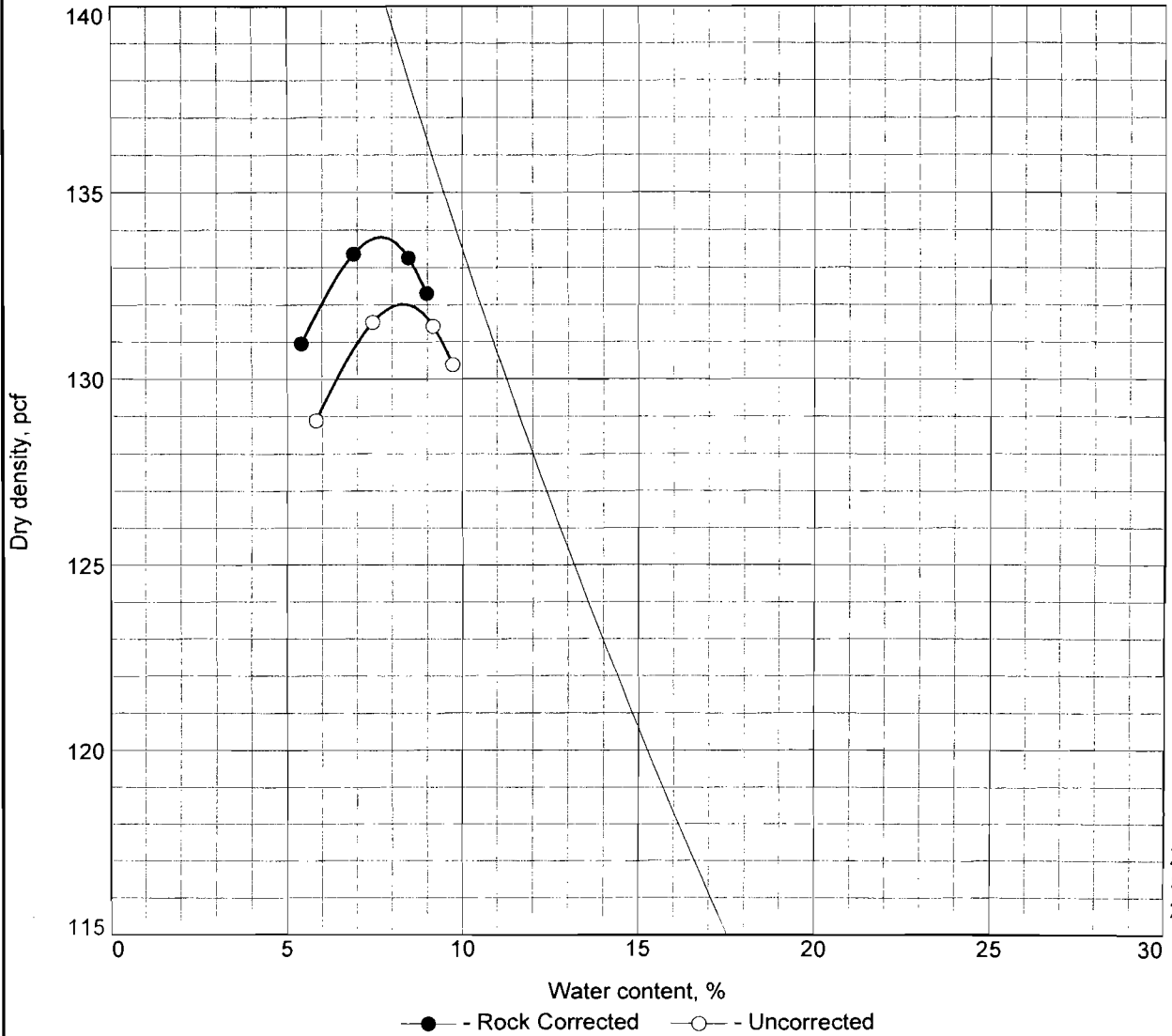
II. CHEMICAL ANALYSIS ( 03/2011 ) :

Silica	as SiO2	9.0%	Calcium	as CaCO3	72.0%
Iron	as Fe2O3	8.5%	Magnesium	as MgCO3	8.0%
Aluminum	as Al2O3	2.5%	Calcium Carbonate Equiv.	CCE	81.4%
Sulfur	as S	0.1%			

III. QUALITY DATA:

TEST	TEST DATE	Product										
		3	4	467	57	67	W 67	W 8	8	9	Washed Sand	Fine Sand
<b>* SPECIFIC GRAVITY *</b>												
BULK (ASPHALT)	1/11	2.722	2.713	2.699	2.716	2.714	2.705	2.699	2.684	2.700	2.672	2.676
BULK - SSD (CONCRETE)	1/11	2.729	2.717	2.711	2.722	2.720	2.719	2.713	2.694	2.714	2.695	2.699
APPARENT	1/11	2.740	2.724	2.732	2.732	2.730	2.744	2.738	2.710	2.738	2.734	2.738
% ABSORPTION	1/11	0.2%	0.2%	0.5%	0.2%	0.2%	0.5%	0.5%	0.4%	0.5%	0.9%	0.9%
<b>* UNIT WEIGHT *</b>												
DRY RODDED (LBS/CUBIC FT)	1/11	91.3	90.0	98.5	95.1	94.9	98.9	96.3	93.1	95.1	101.8	103.4
DRY RODDED (LBS/CUBIC YARD)	1/11	2465	2430	2660	2568	2562	2670	2600	2514	2568	2749	2792
DRY RODDED ( % VOIDS )	1/11	46.2%	46.8%	41.5%	43.9%	43.9%	40.0%	42.8%	44.7%	43.6%	39.0%	38.1%
DRY RODDED (Kg/Cubic Meter)	1/11	1462	1442	1578	1523	1520	1584	1543	1491	1523	1631	1656
VTM-5 % VOIDS IN STONE SAND												
ASTM C1252 % VOIDS (METH B)	1/11										51.7%	51.9%
ASTM C1252 % VOIDS (METH C)	1/11										43.4%	40.3%
ASTM D4791 % F & E (3:1)	1/11	31.1%	9.2%	17.5%	18.6%	20.0%	15.3%	19.1%	29.0%			
<b>* LOS ANGELES DEGRADATION *</b>												
GRADING A % LOSS	1/11	17.5%										
GRADING B % LOSS	1/11	17.2%										
GRADING C % LOSS	1/11	16.5%										
SOUNDNESS % LOSS (Magnesium Sulfate)	2/10	0.3%	0.3%	0.5%	0.9%	0.8%	0.8%	0.3%	0.3%	10.5%	10.6%	10.8%
SOUNDNESS % LOSS (Sodium Sulfate)	1/11	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	2.5%	6.0%	5.6%
<b>*Surface Treatment Rate of Application*</b>												
Stone (lb/sq yd)												
Emulsion (gal/sq yd)												
<b>* SUPERPAVE *</b>												
ASTM C1252 % VOIDS (METH A)	1/11										46.2%	47.2%
AASHTO T 176 SAND EQUIVALENT	1/11										85	81
ASTM D4791 % F & E (5:1)	1/11	8.8%	0.0%	1.2%	0.7%	0.4%	1.2%	4.5%	6.3%			

# COMPACTION TEST



ZAV for Sp.G. = 2.72

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						
--	--	--	--	--	--	--	8.6	--

Assumed sample sp. gr. for ZAV: 2.72

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 133.8 pcf	132.0 pcf	307-02 aggregate
Optimum moisture = 7.7 %	8.3 %	

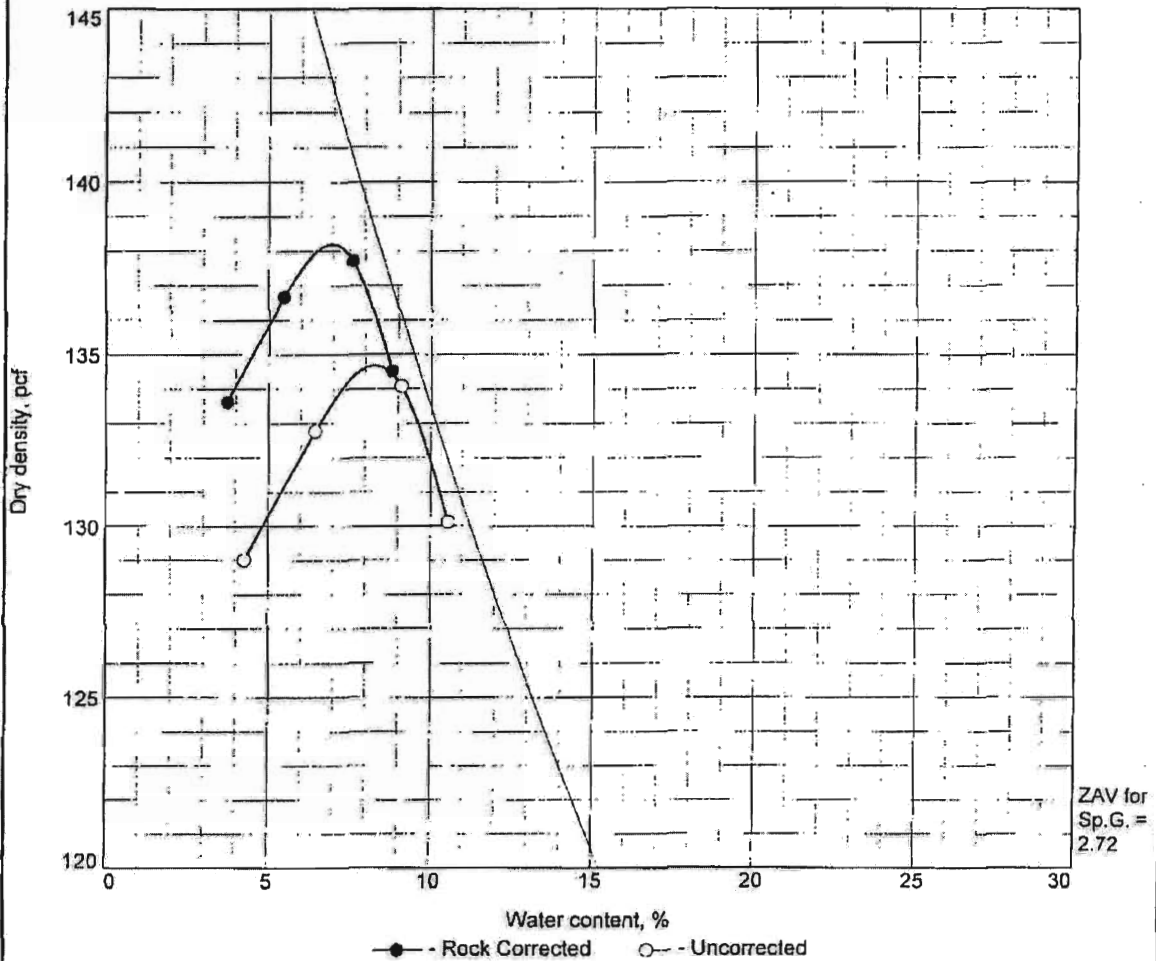
**Project No.** K62-063T    **Client:** Boxley Materials Company  
**Project:** Laboratory testing  
**Sample Source:** Lewisburg    **Depth:** --    **Sample No.:** 107240

**Remarks:**  
 May 22, 2009  
 Assumed sp. gr. of +3/4": 2.72

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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						
--	--	--	--	--	--	--	19.4	--

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 138.2 pcf	134.7 pcf	307-01 aggregate
Optimum moisture = 7.0 %	8.3 %	

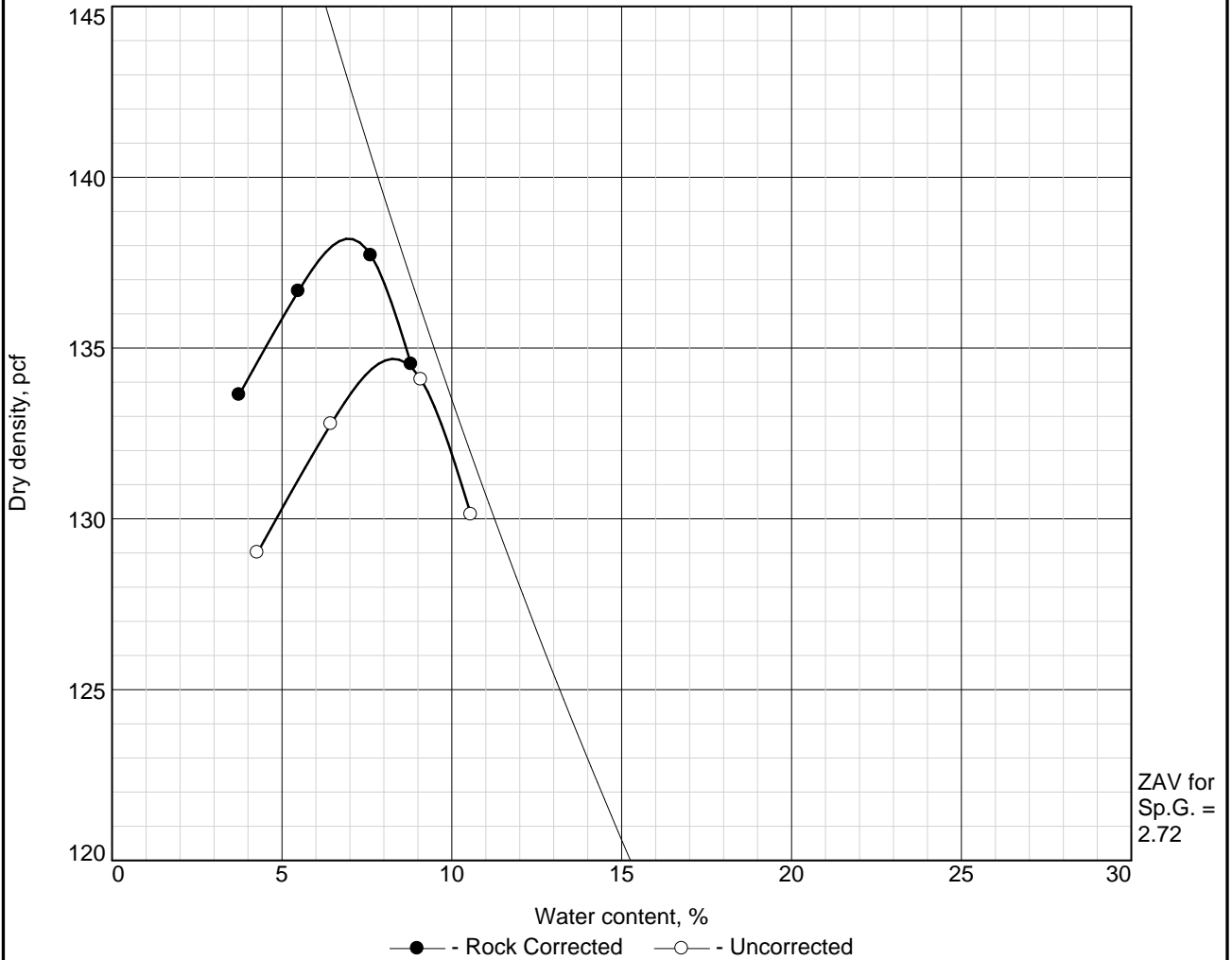
Project No. K62-063T    Client: Boxley Materials Company Project: Laboratory testing Sample Source: Lewisburg    Depth: --    Sample No.: 107341	Remarks:  June 1, 2006
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Figure

Assumed sample sp. gr. for ZAV: 2.72

# 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						
--	--	--	--	--	--	--	19.4	--

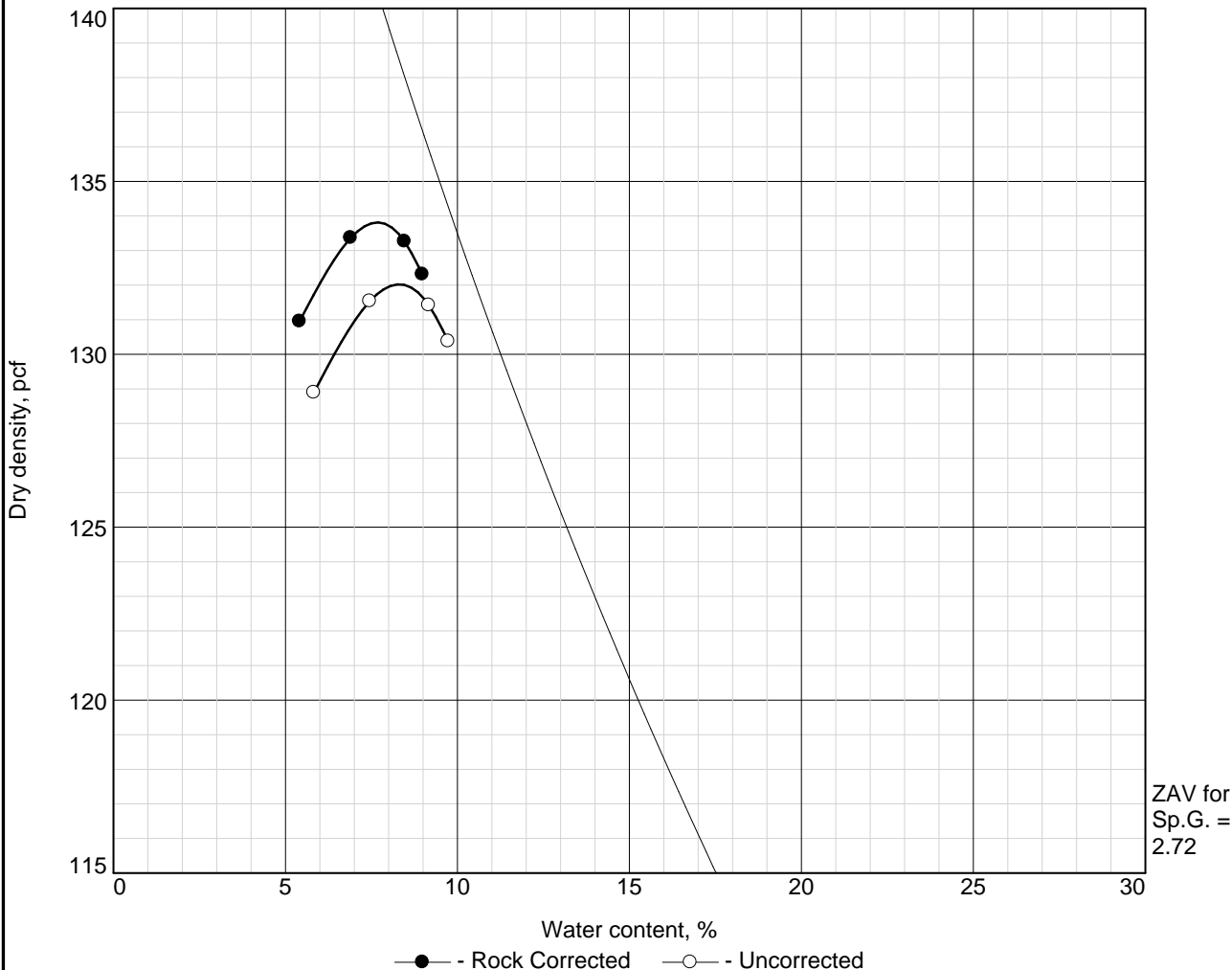
ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 138.2 pcf	134.7 pcf	307-01 aggregate
Optimum moisture = 7.0 %	8.3 %	

<b>Project No.</b> K62-063T <b>Client:</b> Boxley Materials Company <b>Project:</b> Laboratory testing  <input type="checkbox"/> <b>Sample Source:</b> Lewisburg <b>Depth:</b> -- <b>Sample No.:</b> 107241	<b>Remarks:</b>  June 1, 2006
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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						
--	--	--	--	--	--	--	8.6	--

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 133.8 pcf	132.0 pcf	307-02 aggregate
Optimum moisture = 7.7 %	8.3 %	

<b>Project No.</b> K62-063T <b>Client:</b> Boxley Materials Company <b>Project:</b> Laboratory testing  ○ <b>Sample Source:</b> Lewisburg <b>Depth:</b> -- <b>Sample No.:</b> 107240	<b>Remarks:</b>  May 22, 2009  Assumed sp. gr. of +3/4": 2.72
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Assumed sp. gr. for ZAV: 2.75