



ETTL Engineers & Consultants Inc.

GEOTECHNICAL * MATERIALS * ENVIRONMENTAL * DRILLING * LANDFILLS

Client / Producer: West Henly Materials

ETTL Lab Number: 1410

Project: West Henly Materials Stockpile Testing

Report Date: 4/6/2017

Proposed Use: TxDot Item 247, Type A (2014 Spec Year), COA Item 210 Flexible base

Specifications: TxDot Item 247 (2014 Spec Year), COA

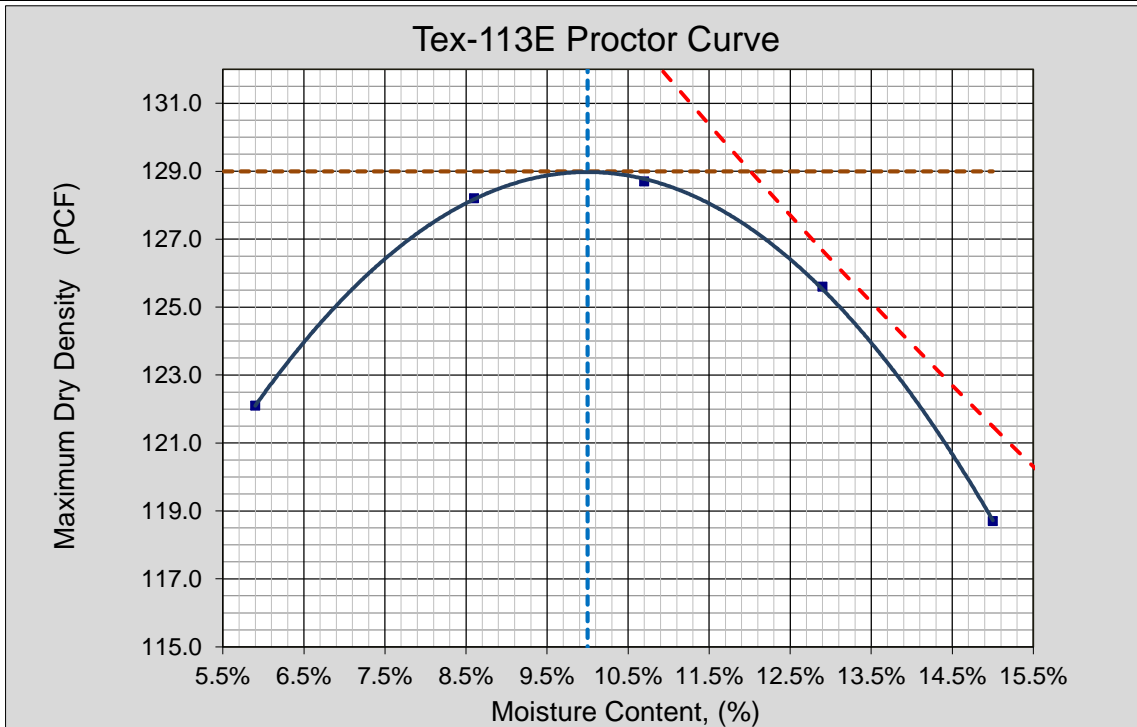
Test Method: Tex-100-E, Tex-101-E, Tex-104-E, Tex-105-E, Tex-106-E, Tex-110-E, Tex-113-E, Tex-116-E, Tex-117-E

Stockpile ID: West Henly Plant Stockpile #102

Sampled By: C.Taylor, NICET IV #101794

Date Sampled: 3/27/2017

Material Description: Tan Crushed Limestone



Compaction Test Results						
Points:	1	2	3	4	5	
Dry Density (pcf):	122.1	128.2	128.7	125.6	118.7	Maximum Dry Density: 129.0 pcf
Moisture Content (%):	5.9%	8.6%	10.7%	12.9%	15.0%	Optimum Moist Content: 10.0%

Atterberg Limits				Wet Ball Mill					
	Result	Grade 1-2	Grade 3	COA 210		Results	Grade 1-2	Grade 3	COA 210
Liquid Limit	22	Max 40	Max 40	--	Wet Ball Mill Value	35	Max 40	--	Max 42
Plastic Limit	15	--	--	--	% Increase (-) No. 40	13	Max 20	--	Max 20
Plasticity Index	7	Max 10	Max 12	Max 10					
Linear Shrinkage %	--	--	--	--					

Compressive Strength				Sieve Analysis					
	Strength PSI	Grade 1-2	Grade 3	COA 210	Sieve Size	% Retained	Grade 1-2	Grade 3	COA 210
Lateral Pressure 0psi	64	Min 35	--	Min 35	2 1/2"	0.0	0	0	--
Lateral Pressure 3psi	194	--	--	--	1 3/4"	0.0	0-10	0-10	0
Lateral Pressure 15psi	289	Min 175	--	Min 175	7/8"	23.4	10-35	--	10-35
					3/8"	52.8	30-65	--	30-50
					No. 4	61.9	45-75	45-75	45-65
					No. 40	77.2	65-90	50-85	70-85
					No. 200	86.4	--	--	--

*Estimated Quantity Provided by the Supplier	25,000 yd ³
Tested By	Tyler Sutherland 132294
Reviewed By	Chris Taylor S.E.T 101794

Respectfully Submitted,

Owen Sanderson

Owen Sanderson P.E.
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