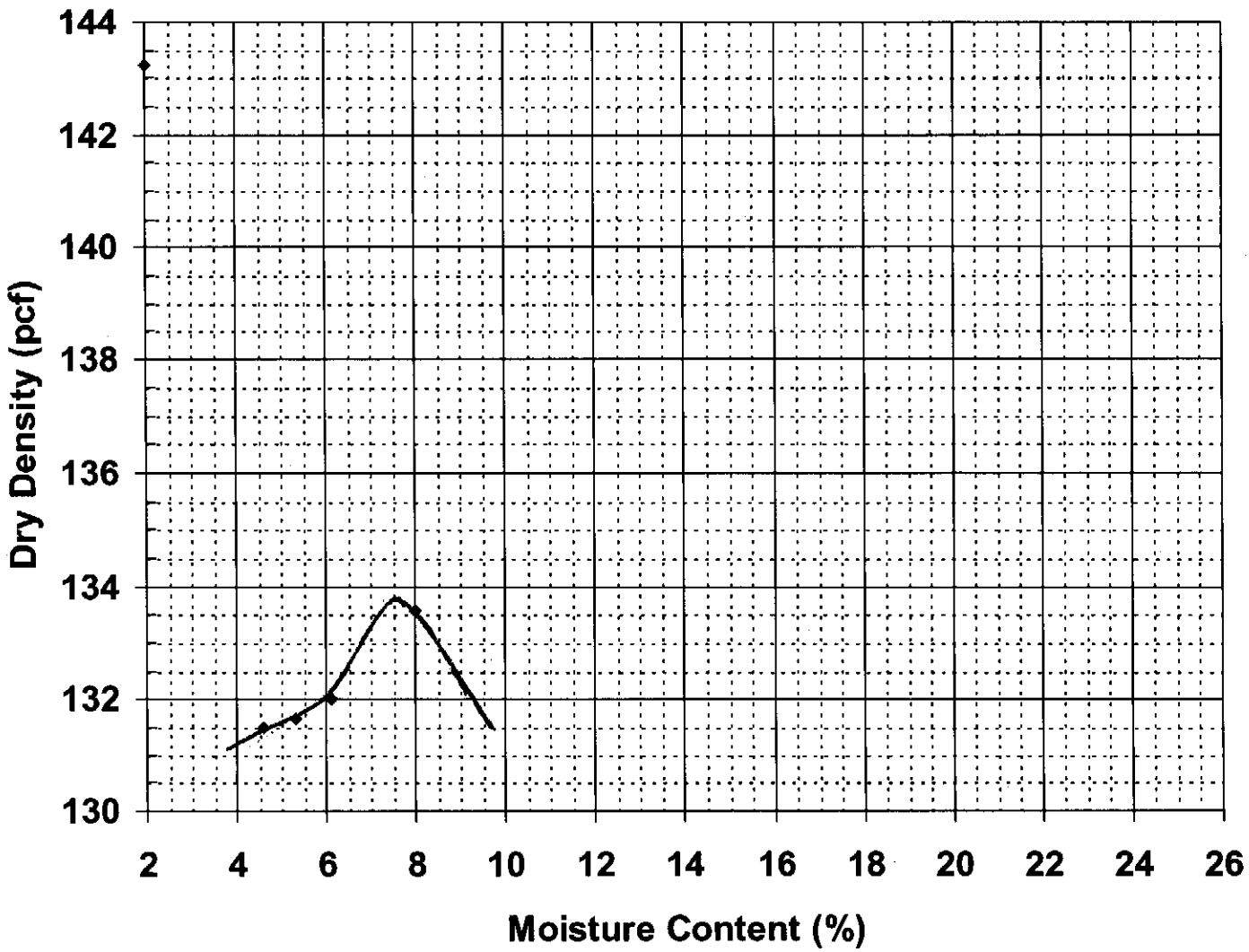
S.W.COLE ENGINEERING, INC.

Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name	PORTLAND ME - CUMBERLAND COUNTY CIVIC CENTER RENOVATIONS - CONSTRUCTION MATERIALS TESTING	Project Number	12-0034.1
Client	CUMBERLAND COUNTY CIVIC CENTER	Lab ID	16128G
Material Type	WBRC GRANULAR FILL	Date Received	11/9/2012
Material Source	SHAW BROS - O PIT	Date Completed	11/12/2012
		Tested By	KARL GIMPEL

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	133.8
Optimum Moisture Content (%)	7.5
Percent Oversized	30.0%

Corrected Dry Density (pcf)	**140.1**
Corrected Moisture Content (%)	**5.8**

Comments

Roger E. Domingo

286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • www.swcole.com

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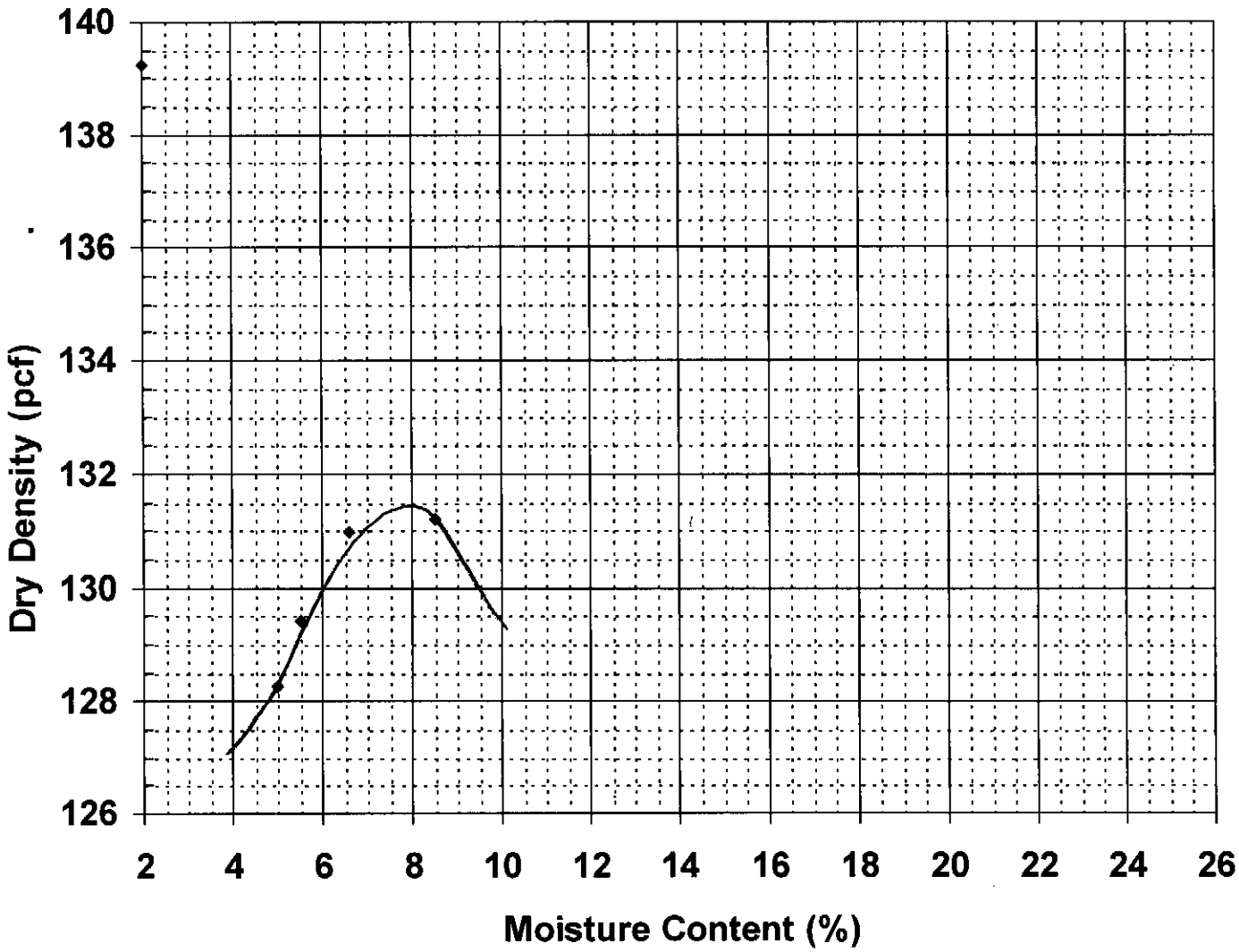
Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name	PORTLAND ME - CUMBERLAND COUNTY CIVIC CENTER RENOVATIONS - CONSTRUCTION MATERIALS TESTING	Project Number	12-0034.1
Client	CUMBERLAND COUNTY CIVIC CENTER	Lab ID	16417G
Material Type	AGGREGATE BASE (TYPE B)	Date Received	1/22/2013
Material Source	BRICKYARD QUARRY	Date Completed	1/24/2013
		Tested By	CHRISTOPHER HENES

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	131.5
Optimum Moisture Content (%)	8
Percent Oversized	30.0%

Corrected Dry Density (pcf)	**138.3**
Corrected Moisture Content (%)	**6.2**

Comments

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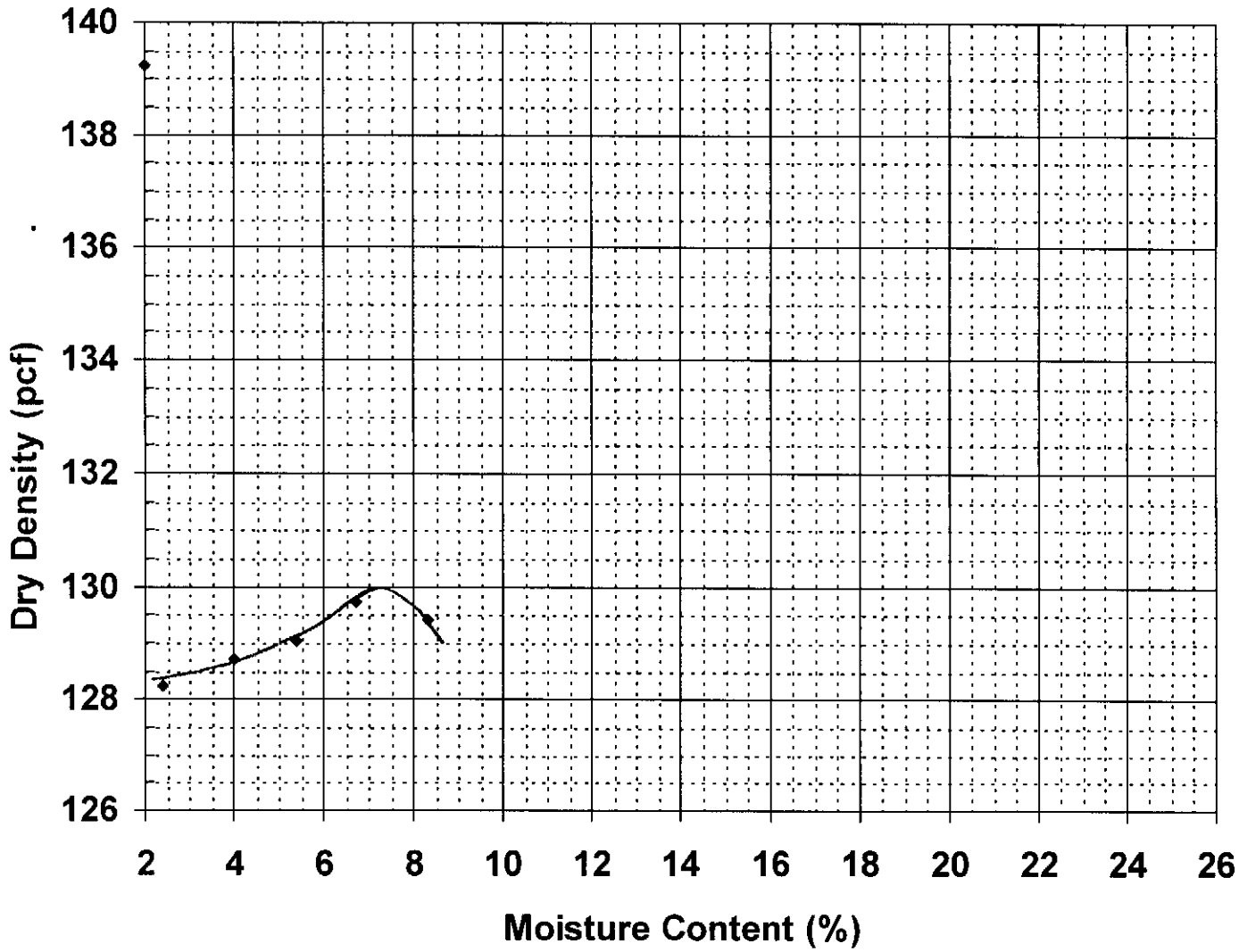
Method ASTM D-1557 MODIFIED Procedure C

Project Name	PORTLAND ME - CUMBERLAND COUNTY CIVIC CENTER RENOVATIONS - CONSTRUCTION MATERIALS TESTING	Project Number	12-0034.1
Client	CUMBERLAND COUNTY CIVIC CENTER	Lab ID	17128G
Material Type	GRANULAR FILL	Date Received	8/20/2013
Material Source	SHAW BROTHERS O-PIT	Date Completed	8/22/2013
		Tested By	RYAN SWEETSER

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	130
Optimum Moisture Content (%)	7.4
Percent Oversized	27.5%

Corrected Dry Density (pcf)	**136.5**
Corrected Moisture Content (%)	**5.9**

Comments

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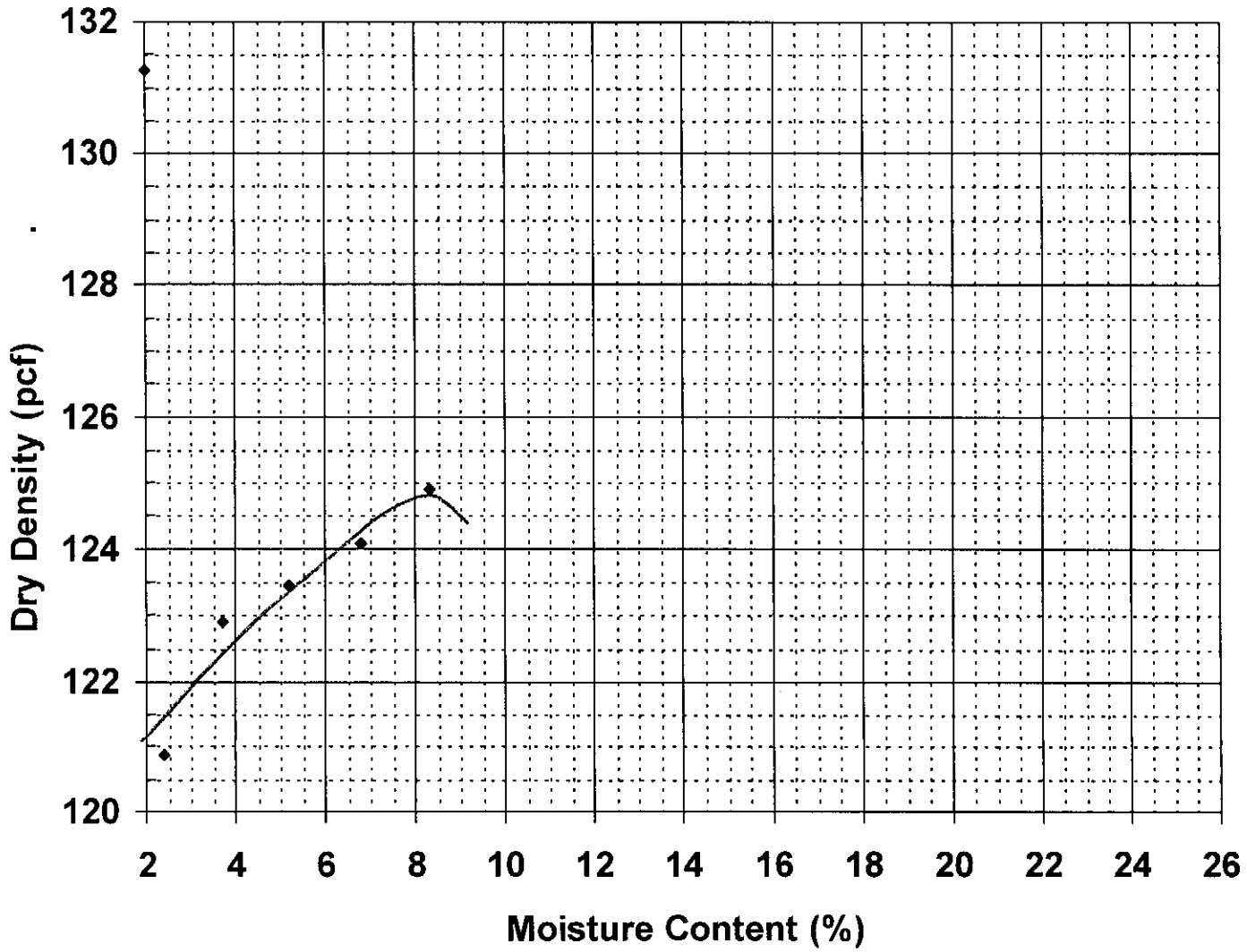
Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name	PORTLAND ME - CUMBERLAND COUNTY CIVIC CENTER RENOVATIONS - CONSTRUCTION MATERIALS TESTING	Project Number	12-0034.1
Client	CUMBERLAND COUNTY CIVIC CENTER	Lab ID	17134G
Material Type	GRANULAR FILL	Date Received	8/21/2013
Material Source	SHAW. BROS. N-PIT	Date Completed	8/22/2013
		Tested By	RYAN SWEETSER

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	125
Optimum Moisture Content (%)	8
Percent Oversized	30.0%

Corrected Dry Density (pcf)	**133.2**
Corrected Moisture Content (%)	**6.2**

Comments

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