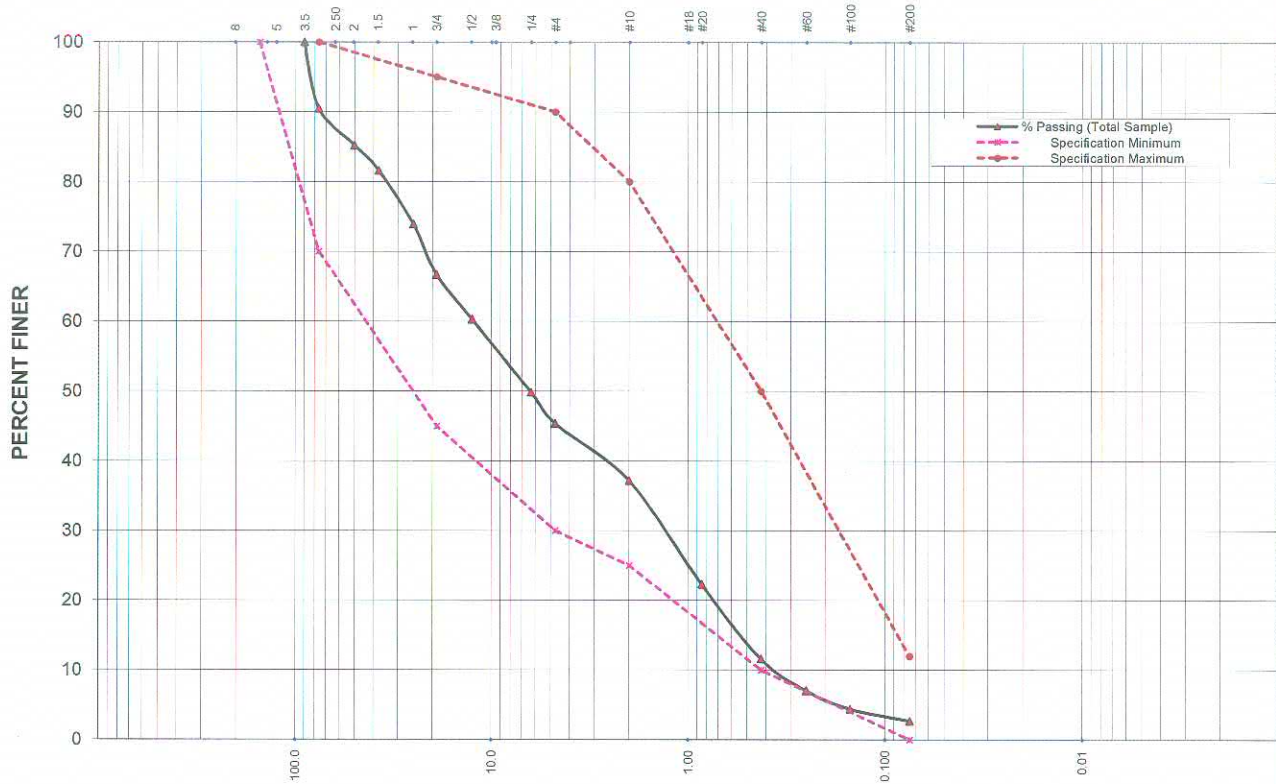


GRAIN SIZE DISTRIBUTION TEST REPORT

ASTM TEST METHODS:

Soil; D422, D1140

Concrete Aggregate; C136, C117



% Cobbles	% Gravel	Coarse	Medium	Fine	% Fines
9	45	19	60	21	Silt (>0.002mm) Clay (<0.002mm)
					2.7

Classification: WELL GRADED GRAVEL; brown (GW)

	Sieve Size	U.S. Sieve Size	Cumulative	% Passing	% Passing	Specification		
	(mm)	(in.)	Retained (g)	(Total Sample)	(Sand Portion)	Minimum	Maximum	
Particle Diameters (mm)	200.0	8"				100		
	152.4	6"						
	101.6	4"						
	90.0	3.5"	0	100				
	76.2	3"	2971	91		70	100	
	D ₁₀ = 0.38	50.0	2"	4631	85			
	D ₃₀ = 1.40	37.5	1.5"	5756	82			
	D ₆₀ = 10.30	25.0	1"	8156	74			
		19.0	3/4"	10424	67		45	95
		12.5	1/2"	12433	60			
Coefficients	6.3	1/4"	15699	50				
	C _u = 27.1	4.75	#4	45		30	90	
	C _c = 0.5	2.00	#10	37		25	80	
		0.85	#20	22				
		0.425	#40	12		10	50	
		0.250	#60	7				
		0.150	#100	4				
		0.075	#200	337.90	2.7		0	12
		Total Dry Wt.		31320	g			
		Split Wt.		359.1	g			

Project: W.B. Mason Expansion	Project No.: J3091112	Report #: J3091112.0024
Location: Portland, Maine	Specification: Structural Fill	Date: 03/10/10
Source: Pike Industries	Sampled from: Stockpile	

<p style="text-align: center;">Terracon 15 Holly Street Scarborough, ME 04074 (207) 396-5374 fax: (207) 396-5394 www.terracon.com</p>	<p>Remarks: Gradation meets specification</p> <p>Tested By: Ethan Marro Reviewed By: <i>(Signature)</i></p> <p>Date: 03/11/10 Date: 3/12/10</p>
--	---

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Terracon

15 Holly St.
Scarborough, ME 04074
207-396-5374

Report Number: J3091112.0024
Service Date: 03/11/10
Report Date: 03/11/10

Client

BKA Architects
Attn: Matt Pelletier
142 Crescent Street
Brockton, MA 02302

Project

W.B. Mason Expansion
106 Pine Tree Industrial Parkway
Portland, ME 04102

Project Number J3091112

Material Information

Source of Material: Pike Industries
Proposed Use: Structural Fill

Sample Information

Sample Date: 03/10/10
Sampled By: Ethan M. Marro
Sample Location: On-Site Stockpile

Sample Description: WELL GRADED GRAVEL; brown (GW)

Laboratory Test Data

Test Procedure: ASTM D1557
Test Method: Method C
Sample Preparation: Wet
Rammer Type: Mechanical

	<u>Result</u>	<u>Specifications</u>
Liquid Limit:		
Plastic Limit:		
Plasticity Index:		
In-Place Moisture (%):		

Oversized Particles (%): 30.0
Moisture (%): 2.3
Sieve for Oversize Fraction: 3/4

Assumed Bulk Specific Gravity of Oversized Particles: 2.65

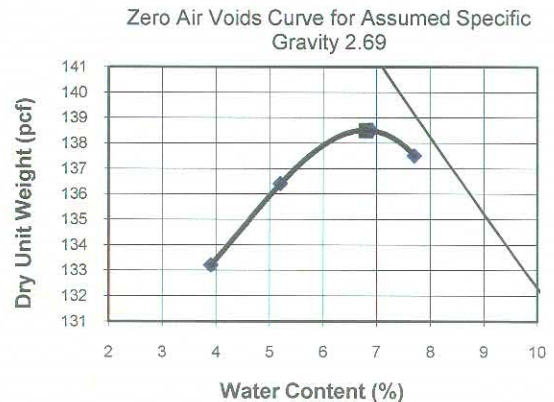
Corrected for Oversized Particles (ASTM D4718)

Maximum Dry Unit Weight (pcf): 138.5
Optimum Water Content (%): 6.8

Uncorrected Values

Maximum Dry Unit Weight (pcf): 129.5
Optimum Water Content (%): 8.7

USCS: WELL GRADED GRAVEL; brown (GW)



Comments:

Services:

Terracon Rep: Ethan M. Marro

Reported To:

Contractor:

Report Distribution:

(1) BKA Architects

Reviewed By: _____

Wendell Shedd

Test Methods: ASTM D1557

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.