

## REPORT OF CONCRETE FIELD & LABORATORY TESTING

**CLIENT:** DN Tanks  
 11 Teal Road  
 Wakefield, MA 01880  
 Attn: Mr. Jake Sreca

**PROJECT:** Middletown CT  
 224 Talcott Ridge Drive  
 Middletown, CT

**DATE:** October 8, 2020

**REPORT #:** 20-07-161-004

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**General Location:** Water Tank, Outer Rim

**Date Cast:** 8/13/2020  
**Field Rep:** Stephen Sturges  
**Contractor:** DN Tanks  
**Concrete Supplier:** CT Ready Mix  
**Concrete Admixtures:** N/A  
**Air Temp:** 75 °F  
**Weather:** Sunny  
**Nominal Size of Aggr:** 3/4"  
**Date Received by Lab:** 8/14/2020

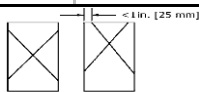
**FIELD TEST RESULTS (Sampled in accordance with ASTM C172)**

TICKET #	*# CYL	SLUMP TEST (in) (ASTM C143)	AIR CONTENT (%) (ASTM C231)	TEMPERATURE (°F) (ASTM C1064)	ELAPSED TIME		
					Batch	Final	Total (Min)
1008161	6	4.50"	3.50%	82 °F	6:34 AM	7:51 AM	77

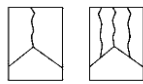
*\*Specimens molded/conditioned in accordance with ASTM C31/ASTM C1231*

**LABORATORY COMPRESSIVE STRENGTH TESTING (ASTM C39)**

Date of Test	Cylinder ID	Age	Cure	Avg Measured Diameter (in)	Cross Sectional (in <sup>2</sup> )	PSI	Max. Load	Break Type
08/18/20	1A	5	LAB	6.00"	28.26"	1,420	40,080	5
08/20/20	1B	7	LAB	6.00"	28.26"	1,670	47,210	2
08/20/20	1C	7	LAB	6.00"	28.26"	1,680	47,570	2
09/10/20	1D	28	LAB	6.00"	28.26"	2,030	57,370	3
09/10/20	1E	28	LAB	6.00"	28.26"	2,050	58,060	2
10/08/20	1F	56	LAB	6.00"	28.26"	2,230	63,000	3



**Type 1**  
Reasonably well-formed cones on both ends, less than 1 in. (25 mm) of cracking through caps



**Type 2**  
Well-formed cone on one end, vertical cracks running through caps, no well-defined cone on other end



**Type 3**  
Columnar vertical cracking through both ends, no well-formed cones



**Type 4**  
Diagonal fracture with no cracking through ends; top with hammer to distinguish from Type 1



**Type 5**  
Side fractures at top or bottom (occur commonly with unbonded caps)



**Type 6**  
Similar to Type 5 but end of cylinder is pointed

<b>Specific Sample Location:</b>	Outer Rim		
<b>Yards Placed:</b>	61.0	<b>yards<sup>3</sup></b>	<b>Design Strength:</b> 2500 psi
<b>Density:</b>			
<b>Remarks:</b>			

**Reviewed By:**

Darlene Daniels

*John Turner Consulting, Inc. considers the information contained in this report to be proprietary. Test results presented herein relate only to those items tested. This document and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part for any purpose other than to validate test results without written approval from John Turner Consulting, Inc.*

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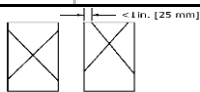
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TICKET #	*# CYL	SLUMP TEST (in) (ASTM C143)	AIR CONTENT (%) (ASTM C231)	TEMPERATURE (°F) (ASTM C1064)	ELAPSED TIME		
					Batch	Final	Total (Min)
1008164	6	1.50"	4.00%	82 °F	7:44 AM	8:33 AM	49

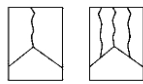
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**LABORATORY COMPRESSIVE STRENGTH TESTING (ASTM C39)**

Date of Test	Cylinder ID	Age	Cure	Avg Measured Diameter (in)	Cross Sectional (in <sup>2</sup> )	PSI	Max. Load	Break Type
08/18/20	2A	5	LAB	6.00"	28.26"	1,630	46,180	5
08/20/20	2B	7	LAB	6.00"	28.26"	2,060	58,350	5
08/20/20	2C	7	LAB	6.00"	28.26"	2,260	64,000	5
09/10/20	2D	28	LAB	6.00"	28.26"	2,620	74,180	3
09/10/20	2E	28	LAB	6.00"	28.26"	2,750	77,620	3
	2F		HOLD					



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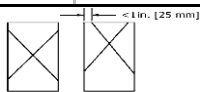
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					Batch	Final	Total (Min)
1008167	6	5.00"	4.10%	84 °F	8:47 AM	10:07 AM	80

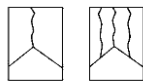
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Date of Test	Cylinder ID	Age	Cure	Avg Measured Diameter (in)	Cross Sectional (in <sup>2</sup> )	PSI	Max. Load	Break Type
08/18/20	3A	5	LAB	6.00"	28.26"	1,420	40,120	5
08/20/20	3B	7	LAB	6.00"	28.26"	1,510	42,650	5
08/20/20	3C	7	LAB	6.00"	28.26"	1,620	45,760	5
09/10/20	3D	28	LAB	6.00"	28.26"	2,010	56,690	3
09/10/20	3E	28	LAB	6.00"	28.26"	2,010	56,770	3
10/08/20	3F	56	LAB	6.00"	28.26"	2,300	65,120	2



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