

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **p11**

Sample Date: **6/16/25**

Dates Test Represents: **6/17/2025** through **6/23/2025**

Concrete Grade: **DM, 4500HP**

Contractor: _____

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1450	8.87	2.62	49.9
26A	71-47	Presque Isle	305	1.87	2.62	10.5
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6
Total Wt			2905	17.69		100.0

<----- Verify this number is 100%

Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	96.4	100.0	100.0	98.2	1.8	1.8
3/4"	77.4	100.0	100.0	88.7	9.5	11.3
1/2"	30.6	96.3	100.0	65.0	23.7	35.0
3/8"	16.4	83.3	100.0	56.5	8.5	43.5
#4	3.2	19.2	96.4	41.8	14.7	58.2
#8	2.5	6.8	79.7	33.5	8.3	66.5
#16	2.4	3.7	62.7	26.4	7.1	73.6
#30	2.3	2.8	46.1	19.7	6.7	80.3
#50	2.2	2.4	23.3	10.6	9.1	89.4
#100	2.1	2.0	5.0	3.2	7.3	96.8
LBW	1.6	1.4	0.7	1.2	2.0	98.8

*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") aggregate is used.

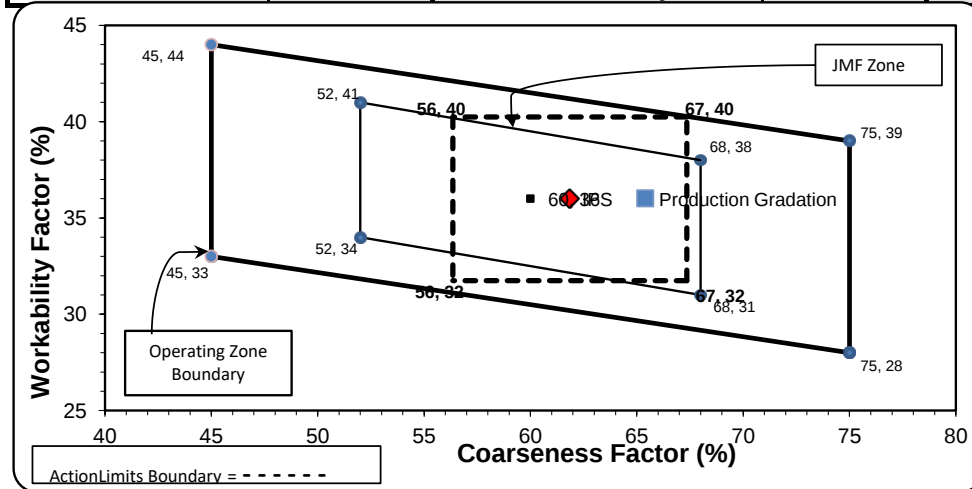


Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	65	Workability Factor:	34	36.0
---------------------------	-----------	----------------------------	-----------	-------------



Coarseness Factor:		62	
Workability Factor:		36	
Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	95.0	5.0	5.0
1/2"	72.3	22.8	27.7
3/8"	60.4	11.8	39.6
#4	42.6	17.8	57.4
#8	36.0	6.6	64.0
#16	29.5	6.5	70.5
#30	20.3	9.2	79.7
#50	9.5	10.8	90.5
#100	3.4	6.1	96.6
LBW	1.3	2.1	98.7

PREPARED BY:
 SM, LLC Technical Service

Approved By:

[Signature]

Daily Summary Report

Date Thursday, June 19, 2025

Sample Id	-1989621925	-1989648568	-674938563	-674937105	-674951131
Plant	S000 Onsite Jefferson	S000 Onsite Jefferson	S000 Onsite Jefferson	S000 Onsite Jefferson	S000 Onsite Jefferson
Product	7920 INTERMED AGG P1M LS	1067 26A Mod LS	7919 COARSE AGG P1M LS	1051 6AA LS	1022 2NS GR
Specification	Intermed Agg P1M LS Target	26A Mod LS Spec	Coarse Agg P1M LS Target		2NS GR Spec
Sample Type	QA	QA	QA	QA	QA
2" (50mm)	100.0	100.0	100.0	100.0	
1 1/2" (37.5mm)	100.0	100.0	93.3	100.0	
1" (25mm)	100.0	100.0	31.5	96.4	
3/4" (19mm)	99.6	100.0	11.0	77.4	
1/2" (12.5mm)	71.0	96.3	3.6	30.6	
3/8" (9.5mm)	41.3	83.3	2.5	16.4	100.0
#4 (4.75mm)	6.1	19.2	2.1	3.2	96.4
#8 (2.36mm)	2.1	6.8	1.9	2.5	79.7
#16 (1.18mm)	1.6	3.7	1.8	2.4	62.7
#30 (.6mm)	1.5	2.8	1.7	2.3	46.1
#50 (.3mm)	1.4	2.4	1.5	2.2	23.3
#100 (.15mm)	1.2	2.0	1.3	2.1	5.0
#200 (75µm)	0.9	1.6	1.1	1.69	0.9
Pan	0.0	0.0	0.0	0.00	0.0
FM					2.87
-#200 (75um)					0.9
Wash Loss (#200/75um)	0.7	1.4	1.0	1.6	0.7
Total Moisture	3.3	7.4	1.6	1.1	2.9