

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P11**

Contractor: _____

Sample Date: 1/14/24

Concrete Grade: **P1M, 3600HP**

Dates Test Represents: 1/15/2024 through 1/11/2024

MDOT No.: _____

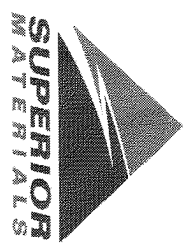
Aggr. Class	Pit #	Source	Weight (ssd)	ft ³	Specific Gravity	Contribution %
CA	71-47	Presque Isle	870	5.32	2.62	28.3
IA	71-47	Presque Isle	1000	6.12	2.62	32.6
2NS	63-115	Ray Rd	1200	7.26	2.65	39.1
Total Wt			3070	18.70		100.0

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

Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	96.9	100.0	100.0	99.1	0.9	0.9
1"	36.9	100.0	100.0	82.1	17.0	17.9
3/4"	10.2	98.5	100.0	74.1	8.1	25.9
1/2"	2.6	68.0	100.0	62.0	12.1	38.0
3/8"	2.0	39.5	100.0	52.5	9.5	47.5
#4	1.8	5.9	94.7	39.4	13.1	60.6
#8	1.7	2.7	77.6	31.7	7.8	68.3
#16	1.7	2.2	61.6	25.3	6.4	74.7
#30	1.6	2.1	46.5	19.3	6.0	80.7
#50	1.6	2.0	25.1	10.9	8.4	89.1
#100	1.5	2.0	6.5	3.6	7.3	96.4
LBW	1.2	1.6	0.7	1.1	2.5	98.9

*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 8% for the 1" sieve when
 a 2" max. size (nom. Max. 1.5") aggregate is used.

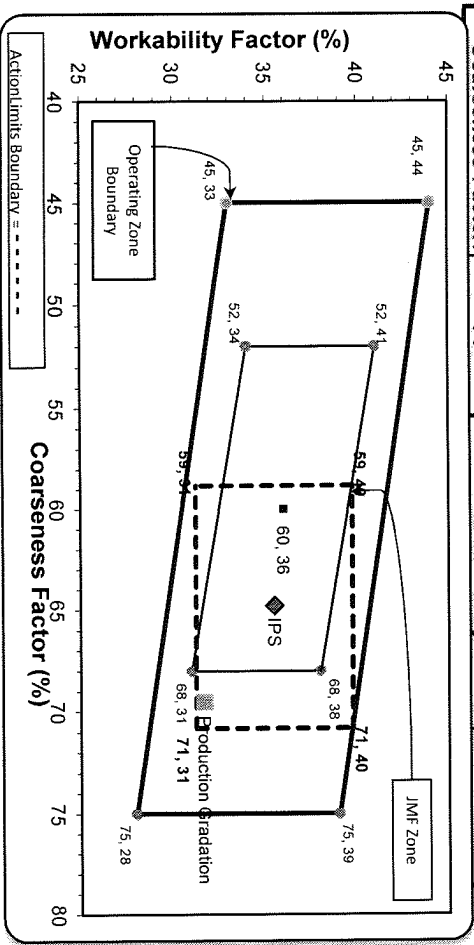
Superior Materials, LLC
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Production Gradation Batch Plant Gradations Aggregate Supplier Gradations
 Coarseness Factor: **70** Workability Factor: **32**

Initial Production Sample (IPS)

Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	99.0	0.6	0.6
1"	84.0	15.3	16.0
3/4"	73.5	10.5	26.5
1/2"	65.2	8.2	34.8
3/8"	58.2	7.1	41.8
#4	44.1	14.1	55.9
#8	35.5	8.6	64.5
#16	29.1	6.4	70.9
#30	21.9	7.3	78.1
#50	9.6	12.2	90.4
#100	2.6	7.1	97.4
LBW	1.0	1.6	99.0



PREPARED BY:
 SM, LLC Technical Service

Approved By: _____



EDW. C. LEVY CO.,
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(313) 843-1720

Daily Summary Report

Date Thursday, November 7, 2024

Sample Id	-674953995	-1590544574	-674962999	-1989655612	-1989644798
Plant	S11 Onsite Jefferson	S11 Onsite Jefferson	S11 Onsite Jefferson	S11 Onsite Jefferson	S11 Onsite Jefferson
Product	1067 26A Mod LS	1051 6AALS	7920 INTERMED AGG P1M LS	1022 2NS GR	7919 COARSE AGG P1M LS
Specification	26A Mod LS Spec		Intermed Agg P1M LS Target	2NS GR Spec	Coarse Agg P1M LS Target
Sample Type	QA	QA	QA	QA	QA
Time	14:20	15:24	15:25	15:27	17:23
2" (50mm)	100.0	100.0	100.0		100.0
1 1/2" (37.5mm)	100.0	100.0	100.0		96.9
1" (25mm)	100.0	97.3	100.0		36.9
3/4" (19mm)	100.0	85.6	98.5		10.2
1/2" (12.5mm)	96.7	51.2	68.0	100.0	2.6
3/8" (9.5mm)	83.8	27.5	39.5		2.0
#4 (4.75mm)	21.8	4.7	5.9	94.7	1.8
#8 (2.36mm)	7.5	2.4	2.7	77.6	1.7
#16 (1.18mm)	4.6	2.1	2.2	61.6	1.7
#30 (.6mm)	3.9	2.0	2.1	46.5	1.6
#50 (.3mm)	3.6	2.0	2.0	25.1	1.6
#100 (.15mm)	3.3	1.9	2.0	6.5	1.5
#200 (75µm)	2.9	1.77	1.7	1.0	1.3
Pan	0.0	0.00	0.0	0.0	0.0
FM				2.88	
-#200 (75µm)				1.0	
Wash Loss (#200/75µm)	2.7	1.6	1.6	0.7	1.2
Total Moisture	2.3	2.9	1.3	4.0	0.1