

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-32**

Sample Date: 1/29/21

Dates Test Represents: 1/30/2021 through 12/6/2021

Concrete Grade: **DM**

Contractor: _____

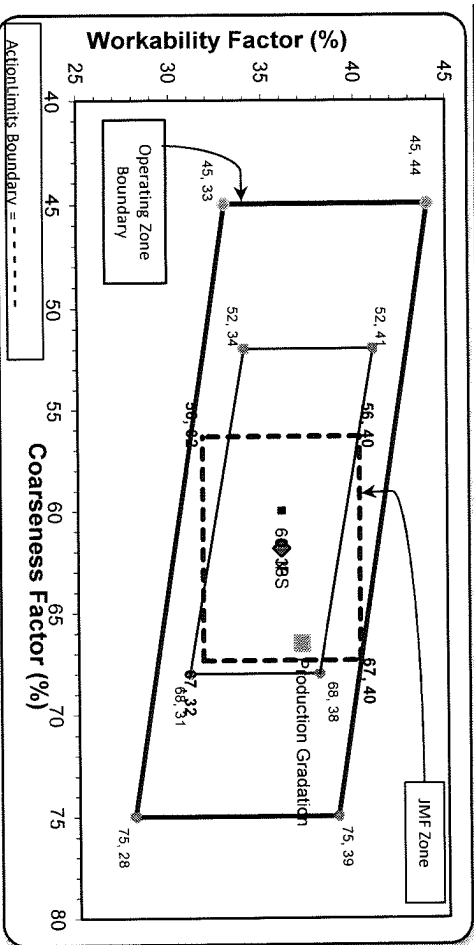
MDOT No.: _____

Agg. Class	Pit #	Source	Weight (ssu)	ft ³	Specific Gravity	Contribution %
6AA	71-47	Presque Isle	1455	8.90	2.62	50.1
26A	71-47	Presque Isle	300	1.83	2.62	10.3
2NS	95-013	Smelter Bay	1150	6.95	2.65	39.6
Total Wt			2905	17.69		100.0

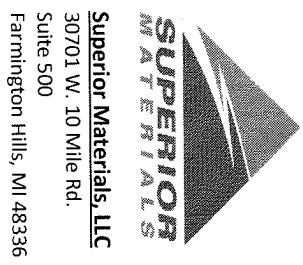
Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	98.0	100.0	100.0	99.0	1.0	1.0
3/4"	69.8	100.0	100.0	84.9	14.1	15.1
1/2"	31.5	95.9	100.0	65.3	19.6	34.7
3/8"	16.3	84.4	100.0	56.5	8.8	43.5
#4	3.2	23.2	95.6	41.8	14.6	58.2
#8	2.1	6.8	82.9	34.6	7.3	65.4
#16	1.9	3.4	67.3	27.9	6.6	72.1
#30	1.8	2.8	49.6	20.8	7.1	79.2
#50	1.7	2.5	24.6	10.8	10.0	89.2
#100	1.6	2.3	7.3	3.9	6.9	96.1
LBW	1.0	1.7	1.6	1.3	2.6	98.7

Production Gradation: Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: **67** Workability Factor: **35** Adjusted WF: **37.1**



Sieve	Coarseness Factor:	Workability Factor:	% Retained	Cumulative % Retained
2"	62	36	0.0	0.0
1.5"			0.0	0.0
1"			0.0	0.0
3/4"			5.0	5.0
1/2"			22.8	27.7
3/8"			11.8	39.6
#4			17.8	57.4
#8			6.6	64.0
#16			6.5	70.5
#30			9.2	79.7
#50			10.8	90.5
#100			6.1	96.6
LBW			2.1	98.7



*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max.
norm. max. #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max.
norm. 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.

PREPARED BY:
SM, LLC Technical Service

Approved By: _____

Plant 958-JMT

Product 1022-2NS GR - Smelter Bay

Name/Title Doug Storey / QC Technician

Period: 11/28/2021 - 12/04/2021

Report Date 11/30/2021

Procedure	Sieve/Test	Result	Unit	2NS GR Spec
	3/8" (9.5mm)	100.0	%	100-100
	#4 (4.75mm)	95.6	%	95-100
	#8 (2.36mm)	82.9	%	65-95
	#16 (1.18mm)	67.3	%	35-75
	#30 (.6mm)	49.6	%	20-55
	#50 (.3mm)	24.6	%	10-30
	#100 (.15mm)	7.3	%	0-10
	#200 (75µm)	1.7	%	
	FM	2.73		2.6-3
	Wash Loss (#200/75um)	1.6	%	0-3
	Total Moisture	5.9	%	

Plant 958-JMT

Product 1067-26A Mod LS

Name/Title Doug Storey / QC Technician

Period: 11/28/2021 - 12/04/2021

Report Date 12/03/2021

Procedure	Sieve/Test	Result	Unit	26A Mod LS Spec
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	
	1" (25mm)	100.0	%	
	3/4" (19mm)	100.0	%	100-100
	1/2" (12.5mm)	95.9	%	95-100
	3/8" (9.5mm)	84.4	%	60-95
	#4 (4.75mm)	23.2	%	5-30
	#8 (2.36mm)	6.8	%	0-12
	#16 (1.18mm)	3.4	%	
	#30 (.6mm)	2.8	%	
	#50 (.3mm)	2.5	%	
	#100 (.15mm)	2.3	%	
	#200 (75µm)	2.0	%	
	Wash Loss (#200/75µm)	1.7	%	0-3
	Total Moisture	5.3	%	

Edw. C. Levy Co.

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Plant 958-JMT

Product 1054-6AA LS PI

Name/Title Doug Storey / QC Technician

Period: 11/28/2021 - 12/04/2021

Report Date 12/03/2021

Procedure	Sieve/Test	Result	Unit	6AA LS PI Spec
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	100-100
	1" (25mm)	98.0	%	95-100
	3/4" (19mm)	69.8	%	
	1/2" (12.5mm)	31.5	%	30-60
	3/8" (9.5mm)	16.3	%	
	#4 (4.75mm)	3.2	%	0-8
	#8 (2.36mm)	2.1	%	
	#16 (1.18mm)	1.9	%	
	#30 (.6mm)	1.8	%	
	#50 (.3mm)	1.7	%	
	#100 (.15mm)	1.6	%	
	#200 (75µm)	1.3	%	
	Wash Loss (#200/75um)	1.0	%	0-2
	Total Moisture	4.4	%	