

Aggregate Optimization Chart

Production Gradation Report

PLANT #: P-32

Contractor: _____

Sample Date: 1/4/21

Concrete Grade: S2M

Dates Test Represents: 1/5/2021 through 1/11/2021

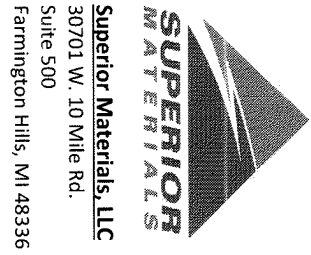
MDOT No.: _____

Agg. Class	Pit #	Source	Weight (ssd)	ft ³	Specific Gravity	Contribution %
6AA	71-47	Presque Isle	1620	9.91	2.62	53.1
26A	71-47	Presque Isle	200	1.22	2.62	6.6
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3
Total Wt			3050	18.57		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"	99.1	100.0	100.0	99.5	0.5	0.5
3/4"	75.2	100.0	100.0	86.8	12.7	13.2
1/2"	31.7	98.8	100.0	63.6	23.2	36.4
3/8"	14.9	85.8	100.0	53.9	9.8	46.1
#4	2.5	15.2	96.4	41.2	12.7	58.8
#8	1.9	3.4	82.7	34.6	6.6	65.4
#16	1.7	1.9	67.0	28.0	6.5	72.0
#30	1.6	1.7	46.4	19.7	8.4	80.3
#50	1.5	1.6	19.1	8.6	11.1	91.4
#100	1.4	1.5	4.4	2.6	6.0	97.4
LBW	1.1	1.2	0.8	1.0	1.6	99.0

*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.

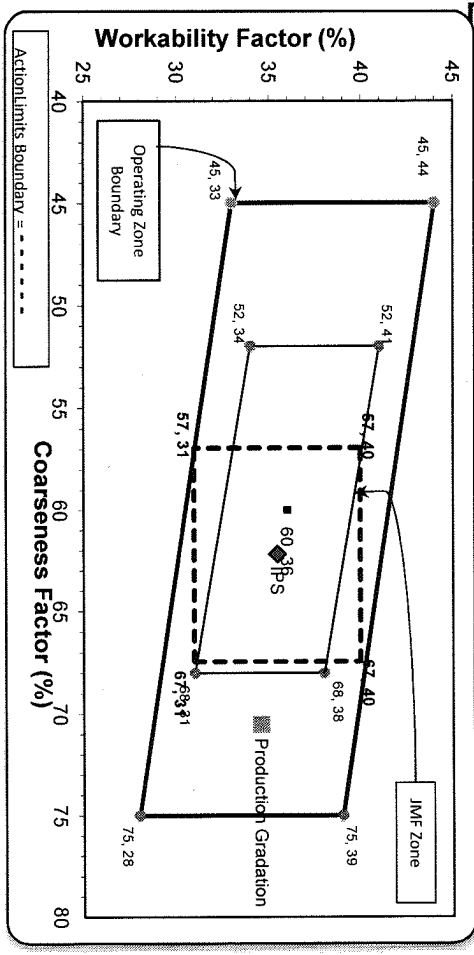


Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Initial Production Sample (IPS)

Coarseness Factor: 71 Workability Factor: 35

Coarseness Factor: 62 Workability Factor: 35



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"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
SM, LLC Technical Service

Approved By: _____

Edw. C. Levy Co.

Plant 958-JMT

Product 1054-6AA LS PI

Period: 01/03/2021 - 01/09/2021

Name/Title Doug Storey / QC Technician

Report Date 01/08/2021

Procedure	Sieve/Test	Result	Unit	6AA LS PI Spec
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	100-100
	1" (25mm)	99.1	%	95-100
	3/4" (19mm)	75.2	%	
	1/2" (12.5mm)	31.7	%	30-60
	3/8" (9.5mm)	14.9	%	
	#4 (4.75mm)	2.5	%	0-8
	#8 (2.36mm)	1.9	%	
	#16 (1.18mm)	1.7	%	
	#30 (.6mm)	1.6	%	
	#50 (.3mm)	1.5	%	
	#100 (.15mm)	1.4	%	
	#200 (75µm)	1.2	%	
	Wash Loss (#200/75um)	1.1	%	0-2
	Total Moisture	3.1	%	

Edw. C. Levy Co.

Plant 958-JMT
 Product 1067-26A Mod LS
 Period: 01/03/2021 - 01/09/2021

Name/Title Doug Storey / QC Technician
 Report Date 01/08/2021

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)	98.8	%	95-100
	3/8" (9.5mm)	85.8	%	60-95
	#4 (4.75mm)	15.2	%	5-30
	#8 (2.36mm)	3.4	%	0-12
	#16 (1.18mm)	1.9	%	
	#30 (.6mm)	1.7	%	
	#50 (.3mm)	1.6	%	
	#100 (.15mm)	1.5	%	
	#200 (75µm)	1.3	%	
	Wash Loss (#200/75um)	1.2	%	0-3
	Total Moisture	3.7	%	

Edw. C. Levy Co.

Plant 958-JMT

Product 1022-2NS GR - Smelter Bay

Name/Title Doug Storey / QC Technician

Period: 01/03/2021 - 01/09/2021

Report Date 01/08/2021

Procedure	Sieve/Test	Result	Unit	2NS GR Spec
	3/8" (9.5mm)	100.0	%	100-100
	#4 (4.75mm)	96.4	%	95-100
	#8 (2.36mm)	82.7	%	65-95
	#16 (1.18mm)	67.0	%	35-75
	#30 (.6mm)	46.4	%	20-55
	#50 (.3mm)	19.1	%	10-30
	#100 (.15mm)	4.4	%	0-10
	#200 (75µm)	0.8	%	
	FM	2.84		2.6-3
	Wash Loss (#200/75um)	0.8	%	0-3
	Total Moisture	6.2	%	