

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-32**

Contractor: _____

Sample Date: **2/22/21**

Concrete Grade: **S2M**

Dates Test Represents: **2/23/2021** through **3/1/2021**

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (ssd)	ft ³	Specific Gravity	Contribution %
6AA	71-47	Presque Isle	1470	8.99	2.62	48.2
26A	71-47	Presque Isle	350	2.14	2.62	11.5
2NS	95-013	Smeller 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"	97.4	100.0	100.0	98.7	1.3	1.3
3/4"	67.8	100.0	100.0	84.5	14.3	15.5
1/2"	32.9	95.9	100.0	67.2	17.3	32.8
3/8"	15.0	83.2	100.0	57.1	10.1	42.9
#4	3.5	17.8	96.2	42.5	14.6	57.5
#8	2.4	5.9	83.0	35.3	7.2	64.7
#16	1.9	3.6	68.8	29.1	6.2	70.9
#30	1.7	3.0	46.3	19.8	9.2	80.2
#50	1.6	2.7	19.9	9.1	10.7	90.9
#100	1.4	2.4	4.8	2.9	6.2	97.1
LBW	1.1	2.1	1.3	1.3	1.6	98.7

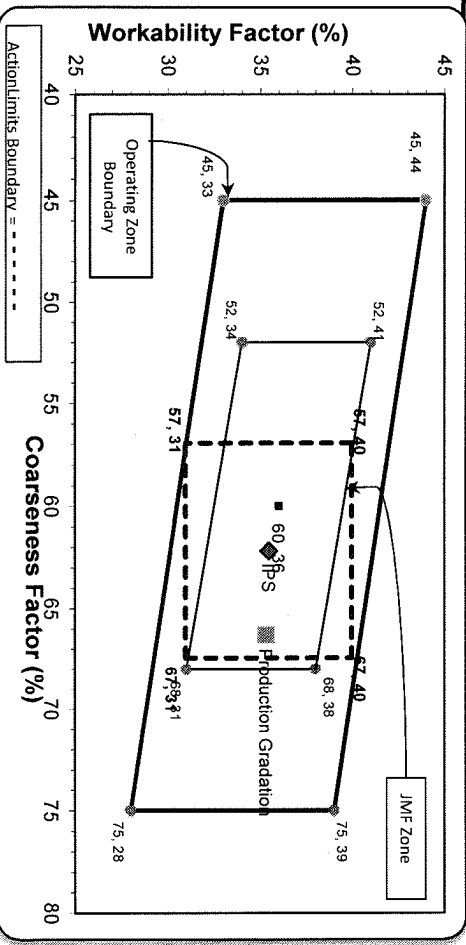
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max.
 nom. max. #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max.
 nom. max. #100 and #200 sieves.
 *% Retained must be at least 8% for the 1" sieve when
 a 2" max. size (nom. 1.5") aggregate is used.

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

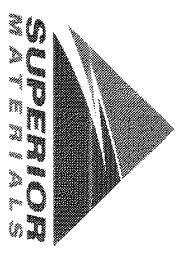
Initial Production Sample (IPS)

Coarseness Factor: **66** 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



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PREPARED BY:
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Approved By: _____

Edw. C. Levy Co.

Basic Quality Statistical Summary Report

Plant 958-JMT
Product 1054-6AA LS PI
Specification 6AA LS PI Spec
Period 02/21/2021 - 02/27/2021

Sieve/Test	Tests	Average	St Dev	Target	Specification
2" (50mm)	1	100.0			
1 1/2" (37.5mm)	1	100.0			100-100
1" (25mm)	1	97.4			95-100
3/4" (19mm)	1	67.8			
1/2" (12.5mm)	1	32.9			30-60
3/8" (9.5mm)	1	15.0			
#4 (4.75mm)	1	3.5			0-8
#8 (2.36mm)	1	2.4			
#16 (1.18mm)	1	1.9			
#30 (.6mm)	1	1.7			
#50 (.3mm)	1	1.6			
#100 (.15mm)	1	1.4			
#200 (75µm)	1	1.1			
Pan	1	0.0			
Wash Loss (#200/75um)	1	1.1			0-2
Total Moisture	1	3.2			

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Basic Quality Statistical Summary Report

Plant 958-JMT
Product 1067-26A Mod LS
Specification 26A Mod LS Spec
Period 02/21/2021 - 02/27/2021

Sieve/Test	Tests	Average	St Dev	Target	Specification
2" (50mm)	1	100.0			
1 1/2" (37.5mm)	1	100.0			
1" (25mm)	1	100.0			
3/4" (19mm)	1	100.0			100-100
1/2" (12.5mm)	1	95.9			95-100
3/8" (9.5mm)	1	83.2			60-95
#4 (4.75mm)	1	17.8			5-30
#8 (2.36mm)	1	5.9			0-12
#16 (1.18mm)	1	3.6			
#30 (.6mm)	1	3.0			
#50 (.3mm)	1	2.7			
#100 (.15mm)	1	2.4			
#200 (75µm)	1	2.2			
Pan	1	0.0			
Wash Loss (#200/75µm)	1	2.1			0-3
Total Moisture	1	3.2			

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Basic Quality Statistical Summary Report

Plant 958-JMT
Product 1022-2NS GR - Smelter Bay
Specification 2NS GR Spec
Period 02/21/2021 - 02/27/2021

Sieve/Test	Tests	Average	St Dev	Target	Specification
3/8" (9.5mm)	1	100.0			100-100
#4 (4.75mm)	1	96.2			95-100
#8 (2.36mm)	1	83.0			65-95
#16 (1.18mm)	1	68.8			35-75
#30 (.6mm)	1	46.3			20-55
#50 (.3mm)	1	19.9		18-28	10-30
#100 (.15mm)	1	4.8			0-10
#200 (75µm)	1	1.3			
Pan	1	0.0			
FM	1	2.81		2.7-2.9	2.6-3
Wash Loss (#200/75um)	1	1.3			0-3
Total Moisture	1	5.1			