

Aggregate Optimization Chart

Production Gradation Report

PLANT #: P-32

Sample Date: 1/17/22

Dates Test Represents: 1/18/2022 through 1/24/2022

Concrete Grade: S2M

Contractor:

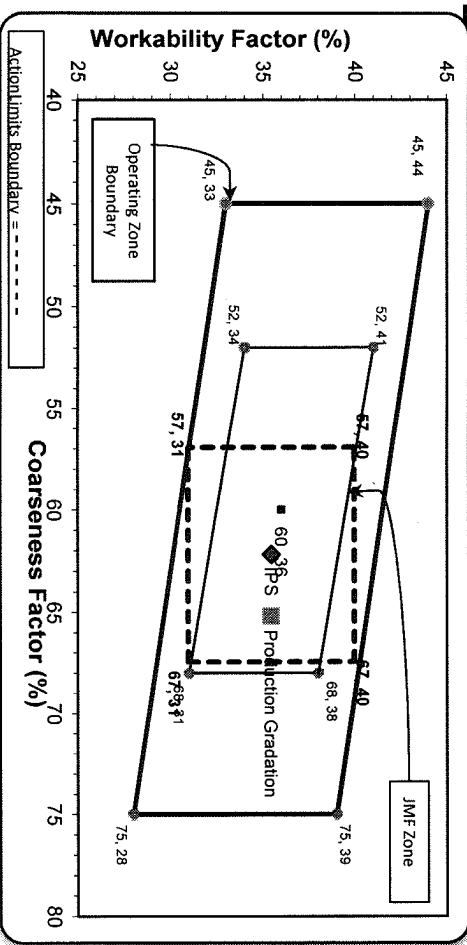
MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5
26A	71-47	Presque Isle	220	1.35	2.62	7.2
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3
		Total Wt	3050			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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	80.0	100.0	100.0	89.5	10.5	10.5
1/2"	37.1	97.3	100.0	66.8	22.7	33.2
3/8"	21.0	91.0	100.0	57.9	8.9	42.1
#4	3.3	26.5	97.0	42.8	15.1	57.2
#8	1.9	5.5	84.4	35.4	7.3	64.6
#16	1.6	3.8	68.7	28.8	6.6	71.2
#30	1.5	2.9	48.8	20.7	8.1	79.3
#50	1.4	2.5	23.3	10.3	10.4	89.7
#100	1.3	2.3	6.9	3.6	6.7	96.4
LBW	1.0	2.0	1.6	1.3	2.3	98.7

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: 65 Workability Factor: 35



Initial Production Sample (IPS)

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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*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.

Plant 958-JMT

Product 1022-2NS GR - Smelter Bay

Name/Title Doug Storey / QC Technician

Period: 01/09/2022 - 01/15/2022

Report Date 01/14/2022

Procedure	Sieve/Test	Result	Unit	2NS GR Spec
	3/8" (9.5mm)	100.0	%	100-100
	#4 (4.75mm)	97.0	%	95-100
	#8 (2.36mm)	84.4	%	65-95
	#16 (1.18mm)	68.7	%	35-75
	#30 (.6mm)	48.8	%	20-55
	#50 (.3mm)	23.3	%	10-30
	#100 (.15mm)	6.9	%	0-10
	#200 (75µm)	2.0	%	
	FM	2.71		2.6-3
	Wash Loss (#200/75um)	1.6	%	0-3
	Total Moisture	5.2	%	

Plant 958-JMT

Product 1067-26A Mod LS

Name/Title Doug Storey / QC Technician

Period: 01/16/2022 - 01/22/2022

Report Date 01/20/2022

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)	97.3	%	95-100
	3/8" (9.5mm)	91.0	%	60-95
	#4 (4.75mm)	26.5	%	5-30
	#8 (2.36mm)	5.5	%	0-12
	#16 (1.18mm)	3.8	%	
	#30 (.6mm)	2.9	%	
	#50 (.3mm)	2.5	%	
	#100 (.15mm)	2.3	%	
	#200 (75µm)	2.1	%	
	Wash Loss (#200/75µm)	2.0	%	0-3
	Total Moisture	3.5	%	

Edw. C. Levy Co.

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Plant 958-JMT
 Product 1054-6AA LS PI
 Period: 01/16/2022 - 01/22/2022

Name/Title Doug Storey / QC Technician
 Report Date 01/20/2022

Procedure	Sieve/Test	Result	Unit	6AA LS PI Spec
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	100-100
	1" (25mm)	100.0	%	95-100
	3/4" (19mm)	80.0	%	
	1/2" (12.5mm)	37.1	%	30-60
	3/8" (9.5mm)	21.0	%	
	#4 (4.75mm)	3.3	%	0-8
	#8 (2.36mm)	1.9	%	
	#16 (1.18mm)	1.6	%	
	#30 (.6mm)	1.5	%	
	#50 (.3mm)	1.4	%	
	#100 (.15mm)	1.3	%	
	#200 (75µm)	1.1	%	
	Wash Loss (#200/75um)	1.0	%	0-2
	Total Moisture	3.3	%	