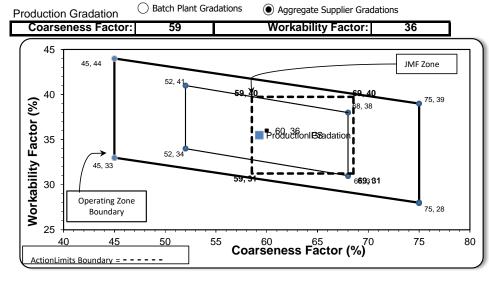
PLANT #: P-10		P-101					Contractor:		
Sample Date	:	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1575	9.63	2.62	51.6			
26A	71-47	Presque Isle	250	1.53	2.62	8.2			
2NS	75-051	Mid Michigan							
		Total Wt	3055	18.57		100.0	< Verify this number is 100%		
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	95.6	100).0	100.0	97.7	2.3	2.3	
3/4"		79.1	100).0	100.0	89.2	8.5	10.8	
1/2"		43.0	94	.7	100.0	70.2	19.0	29.8	
3/8"	:	28.2	85	.2	100.0	61.8	8.4	38.2	*N
#4		6.2	20	.8	97.3	44.1	17.7	55.9	*/
#8		2.5	5.	8	83.8	35.5	8.6	64.5	nor
#16		2.0	3.4	4	69.8	29.4	6.1	70.6	*9
#30		1.9	2.	9	52.5	22.4	7.1	77.6	nor
#50		1.8	2.	7	22.6	10.2	12.1	89.8	*9
#100		1.8	2.		5.0	3.1	7.1	96.9	a 2
LBW		1.6	2.:	2	0.8	1.3	1.8	98.7	1



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



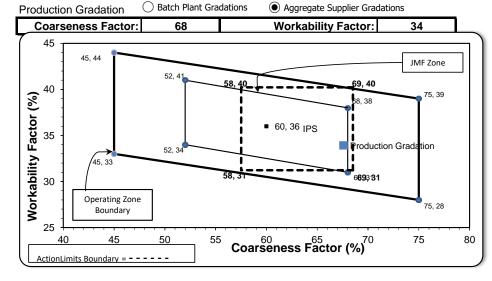
Initial Produc	tion Sample (IPS	5)	_
Coars	seness Factor:	64	
Worl	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	93.9	6.1	6.1
1/2"	71.4	22.5	28.6
3/8"	59.0	12.4	41.0
#4	45.1	13.9	54.9
#8	35.5	9.6	64.5
#16	28.3	7.2	71.7
#30	21.3	6.9	78.7
#50	11.0	10.3	89.0
#100	3.4	7.6	96.6
LBW	1.1	2.3	98.9

Approved By: Mart 1. Ball

PLANT #:		P-102					Contractor:			
Sample Date	e:	5/29/23			Concrete Grade:	S2M, 3500HP				
Dates Test R	epresents:	5/30/2023	through	6/5/2023			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution				
6AA	58-003	Stoneco	1725	10.28	2.69	55.6				
26A	58-003	Stoneco	175	1.04	2.69	5.6				
2NS	81-019	Pleasant Lake 1200 7.26 2.65 38.7								
		Total Wt		< Verify this n	umber is 100%					
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		
2"		100.0	100).0	100.0	100.0	0.0	0.0	1	
1.5"		100.0	100	100.).0	100.0	100.0	0.0	0.0	
1"		99.4	100).0	100.0	99.7	0.3	0.3		
3/4"		85.3	10	10).0	100.0	91.8	7.8	8.2	
1/2"		44.0	99	.8	100.0	68.8	23.0	31.2		
3/8"		21.1	86	.7	100.0	55.3	13.5	44.7	,	
#4		2.9	13	.8	99.4	40.9	14.5	59.1	,	
#8		1.2	4.	2	85.3	33.9	6.9	66.1	no	
#16		1.0	2.	4	66.3	26.4	7.6	73.6	*	
#30		0.9	1.	9	45.5	18.2	8.1	81.8	nc	
#50		0.8	1.	8	21.3	8.8	9.4	91.2	*	
#100		0.7	1.	7	5.4	2.6	6.2	97.4	а	
LBW		0.6	1.	5	0.9	0.8	1.8	99.2	1	



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Intial Production Sample (IPS)									
Coars	eness Factor:	63							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sleve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	99.2	0.8	0.8						
3/4"	90.9	8.3	9.1						
1/2"	71.3	19.6	28.7						
3/8"	59.5	11.8	40.5						
#4	43.8	15.7	56.2						
#8	35.7	8.1	64.3						
#16	27.0	8.7	73.0						
#30	18.6	8.4	81.4						
#50	6.8	11.8	93.2						
#100	1.4	5.4	98.6						
LBW	0.6	0.8	99.4						

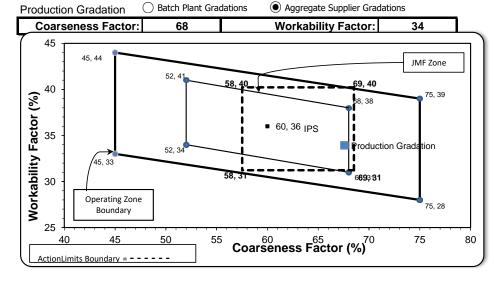
Approved By: Mart P. Ball

PLANT #: P-1		P-103					Contractor:		
Sample Date):	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1725	10.28	2.69	55.6			
26A	58-003	Stoneco	175	1.04	2.69	5.6			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	-
1.5"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	
1"		99.4	10	0.0	100.0	99.7	0.3	0.3	
3/4"		85.3	10	0.0	100.0	91.8	7.8	8.2	
1/2"		44.0	99	.8	100.0	68.8	23.0	31.2	
3/8"		21.1	86	5.7	100.0	55.3	13.5	44.7	*Max
#4		2.9	13	5.8	99.4	40.9	14.5	59.1	*Any
#8		1.2	4	.2	85.3	33.9	6.9	66.1	nom. r
#16		1.0	2.4		66.3	26.4	7.6	73.6	*% R
#30		0.9	1.9		45.5	18.2	8.1	81.8	nom. r
#50		0.8	1	.8	21.3	8.8	9.4	91.2	*% R
#100		0.7	1.		5.4	2.6	6.2	97.4	a 2" m
LBW		0.6	1.	.5	0.9	0.8	1.8	99.2	



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



Intial Production Sample (IPS)									
Coars	eness Factor:	63							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	99.2	0.8	0.8						
3/4"	90.9	8.3	9.1						
1/2"	71.3	19.6	28.7						
3/8"	59.5	11.8	40.5						
#4	43.8	15.7	56.2						
#8	35.7	8.1	64.3						
#16	27.0	8.7	73.0						
#30	18.6	8.4	81.4						
#50	6.8	11.8	93.2						
#100	1.4	5.4	98.6						
LBW	0.6	0.8	99.4						

Approved BY: Mary P. Ball

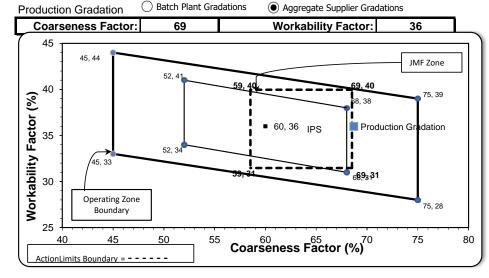
PLANT	#:	14					Contractor:		
Sample Date):	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	Represents:	5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1700	10.13	2.69	54.7			
26A	58-003	Stoneco	200	1.19	2.69	6.4			
2NS	19-04	Schlegel	1210	7.26	2.67	38.9			
		Total Wt	3110	18.58		100.0	< Verify this n	umber is 100%	_
Sieve	(6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"	ç	99.4	100	0.0	100.0	99.7	0.3	0.3	
3/4"	8	35.3	100	0.0	100.0	92.0	7.7	8.0	
1/2"	2	44.0	99	.8	100.0	69.4	22.6	30.6	
3/8"		21.1	86	.7	100.0	56.0	13.4	44.0	*Maximum % F
#4		2.9	13	.8	99.9	41.3	14.7	58.7	*Any two adjac
#8		1.2	4.	2	90.1	36.0	5.4	64.0	nom. max., #100
#16		1.0	2.	4	69.4	27.7	8.3	72.3	*% Retained m
#30		0.9	1.	9	44.5	17.9	9.8	82.1	nom. max., #100
#50		0.8	1.	8	14.3	6.1	11.8	93.9	*% Retained m
#100		0.7	1.		2.7	1.5	4.6	98.5	a 2" max. size (r
LBW		0.6	1.	5	0.2	0.5	1.0	99.5]



Builders Redi-Mix

30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

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



Intial Production Sample (IPS)									
Coars	eness Factor:	64							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	99.2	0.8	0.8						
3/4"	90.9	8.3	9.1						
1/2"	71.3	19.6	28.7						
3/8"	59.2	12.1	40.8						
#4	41.5	17.7	58.5						
#8	35.7	5.8	64.3						
#16	27.9	7.9	72.1						
#30	18.3	9.5	81.7						
#50	7.3	11.0	92.7						
#100	2.0	5.3	98.0						
LBW	0.9	1.1	99.1						

Approved By: Mary P. Ball

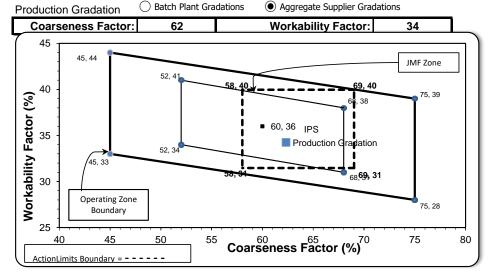
PLANT #	#:	12					Contractor:		
Sample Date	:	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
			_	-	Gravity	Contribution			
6AA	71-47	Presque Isle	1720	10.52	2.62	56.4			
26A	71-47	Presque Isle	100	0.61	2.62	3.3			
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	100).0	100.0	100.0	0.0	0.0	1
1"	1	98.6	100).0	100.0	99.2	0.8	0.8	
3/4"		84.1	100).0	100.0	91.0	8.2	9.0	1
1/2"		46.4	95.	.6	100.0	69.6	21.4	30.4	1
3/8"		28.1	86.	.8	100.0	59.0	10.6	41.0	*N
#4		5.7	18.	.5	96.6	42.8	16.2	57.2	*/
#8		2.4	4.0	6	81.2	34.3	8.5	65.7	nor
#16		2.0	2.	1	66.4	28.0	6.3	72.0	*9
#30		1.8	1.	5	50.6	21.5	6.5	78.5	nor
#50		1.8	1.:	3	25.2	11.2	10.2	88.8	*%
#100		1.7	1.:	2	4.1	2.7	8.6	97.3	a 2
LBW		1.2	1.0	0	0.5	0.9	1.7	99.1	1



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500

Farmington Hills, MI 48336

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



Intial Production Sample (IPS)									
Coars	eness Factor:	64							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	99.2	0.8	0.8						
3/4"	90.9	8.3	9.1						
1/2"	71.3	19.6	28.7						
3/8"	59.2	12.1	40.8						
#4	41.5	17.7	58.5						
#8	35.7	5.8	64.3						
#16	27.9	7.9	72.1						
#30	18.3	9.5	81.7						
#50	7.3	11.0	92.7						
#100	2.0	5.3	98.0						
LBW	0.9	1.1	99.1						

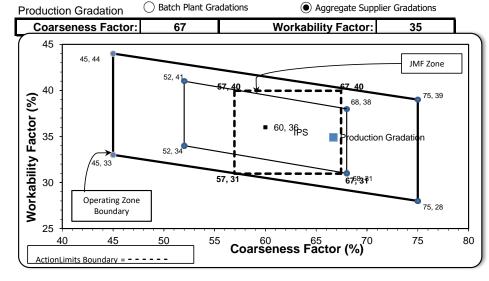
Approved By: Mart P. Ball

PLANT #: p		p11					Contractor:		
Sample Date	:	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1520	9.30	2.62	49.8			
26A	71-47	Presque Isle	300	1.83	2.62	9.8			
2NS	95-013	Smelter Bay 1230 7.44 2.65 40				40.3			
		Total Wt	3050	18.57		100.0	< Verify this number is 100%		
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"		96.7	100).0	100.0	98.4	1.6	1.6	
3/4"		78.5	100	0.0	100.0	89.3	9.1	10.7	
1/2"		37.1	9	.6	100.0	68.2	21.1	31.8	
3/8"		15.5		.8	100.0	56.6	11.6	43.4	*Ma
#4		1.3	18	.5	96.4	41.3	15.2	58.7	*An
#8		1.0	4.	6	84.2	34.9	6.4	65.1	nom.
#16		0.9	2.1		68.3	28.2	6.7	71.8	*% F
#30		0.9	1.	5	48.1	20.0	8.2	80.0	nom.
#50		0.9	1.	3	22.7	9.7	10.3	90.3	*% F
#100		0.9	1.		6.8	3.3	6.4	96.7	a 2" n
LBW		0.7	1.	0	1.4	1.0	2.3	99.0	



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

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



Intial Product	Intial Production Sample (IPS)									
Coar	seness Factor:	62								
Wor	kability Factor:	35								
Sieve	Cumulative	%	Cumulative							
Sieve	% Passing	Retained	% 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							

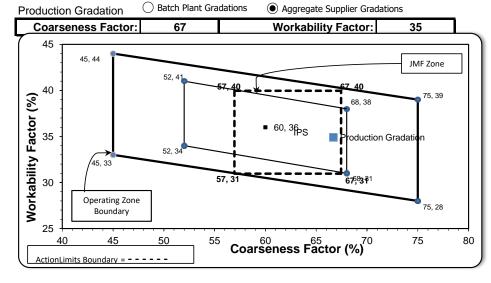
Approved By: Mart 1. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1520	9.30	2.62	49.8			
26A	71-47	Presque Isle	300	1.83	2.62	9.8			
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100).0	100.0	100.0	0.0	0.0	-
1.5"	1	00.0	100).0	100.0	100.0	0.0	0.0	1
1"	1	96.7	100).0	100.0	98.4	1.6	1.6	
3/4"		78.5	100).0	100.0	89.3	9.1	10.7	1
1/2"		37.1	95	.6	100.0	68.2	21.1	31.8	
3/8"		15.5	86	.8	100.0	56.6	11.6	43.4	*M
#4		1.3	18	.5	96.4	41.3	15.2	58.7	*Aı
#8		1.0	4.	6	84.2	34.9	6.4	65.1	nom
#16		0.9	2.	1	68.3	28.2	6.7	71.8	*%
#30		0.9	1.	5	48.1	20.0	8.2	80.0	nom
#50		0.9	1.3	3	22.7	9.7	10.3	90.3	*%
#100		0.9	1.:	2	6.8	3.3	6.4	96.7	a 2"
LBW		0.7	1.	0	1.4	1.0	2.3	99.0	1



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



Intial Production Sample (IPS)									
Coars	eness Factor:	62							
Work	ability Factor:	35							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% 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						

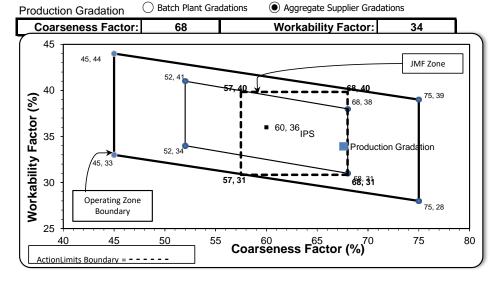
Approved By: Mart P. Ball

PLANT #	#:	P-35					Contractor:		
Sample Date	:	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1725	10.28	2.69	55.6			
26A	58-003	Stoneco	175	1.04	2.69	5.6			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		99.4	100	0.0	100.0	99.7	0.3	0.3	1
3/4"		85.3	100	0.0	100.0	91.8	7.8	8.2	
1/2"		44.0	99.	.8	100.0	68.8	23.0	31.2	
3/8"	21.1		86.	.7	100.0	55.3	13.5	44.7	*N
#4		2.9	13.	.8	99.4	40.9	14.5	59.1	*A
#8		1.2	4.:	4.2		33.9	6.9	66.1	non
#16		1.0	2.4		66.3	26.4	7.6	73.6	*%
#30		0.9	1.9	9	45.5	18.2	8.1	81.8	non
#50		0.8	1.8	8	21.3	8.8	9.4	91.2	*%
#100		0.7	1.1		5.4	2.6	6.2	97.4	a 2'
LBW		0.6	1.	5	0.9	0.8	1.8	99.2	1



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



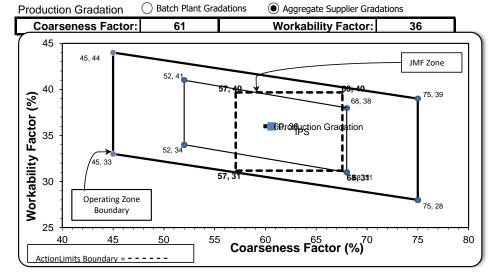
Sieve % Passing Retained % Retain 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 99.2 0.8 0.8 3/4" 90.9 8.3 9.1 1/2" 71.3 19.6 28.7 3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4	Intial Production Sample (IPS)									
Sieve Cumulative % Passing % Retained Cumulative % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 99.2 0.8 0.8 3/4" 90.9 8.3 9.1 1/2" 71.3 19.6 28.7 3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4			63	eness Factor:	Coars					
Sieve % Passing Retained % Retain 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 99.2 0.8 0.8 3/4" 90.9 8.3 9.1 1/2" 71.3 19.6 28.7 3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4			35	ability Factor:	Work					
% Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 99.2 0.8 0.8 3/4" 90.9 8.3 9.1 1/2" 71.3 19.6 28.7 3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4	ive	Cumulativ	%	Cumulative	Siovo					
1.5" 100.0 0.0 0.0 1" 99.2 0.8 0.8 3/4" 90.9 8.3 9.1 1/2" 71.3 19.6 28.7 3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4	ned	% Retaine	Retained	% Passing	Sleve					
1" 99.2 0.8 0.8 3/4" 90.9 8.3 9.1 1/2" 71.3 19.6 28.7 3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4		0.0	0.0	100.0	2"					
3/4" 90.9 8.3 9.1 1/2" 71.3 19.6 28.7 3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4		0.0	0.0	100.0	1.5"					
1/2" 71.3 19.6 28.7 3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4		0.8	0.8	99.2	1"					
3/8" 59.4 11.9 40.6 #4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4		9.1	8.3	90.9	3/4"					
#4 43.0 16.5 57.0 #8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4		28.7	19.6	71.3	1/2"					
#8 35.3 7.6 64.7 #16 28.2 7.1 71.8 #30 21.6 6.6 78.4		40.6	11.9	59.4	3/8"					
#16 28.2 7.1 71.8 #30 21.6 6.6 78.4		57.0	16.5	43.0	#4					
#30 21.6 6.6 78.4		64.7	7.6	35.3	#8					
		71.8	7.1	28.2	#16					
#50 0.4 40.5 00.0		78.4	6.6	21.6	#30					
#50 9.1 12.5 90.9		90.9	12.5	9.1	#50					
#100 1.7 7.4 98.3		98.3	7.4	1.7	#100					
LBW 1.1 0.6 98.9		98.9	0.6	1.1	LBW					

Approved By: Mart P. Ball

PLANT #	#:	P-36					Contractor:		
Sample Date:	:	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/30/2023	through	6/5/2023			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	250	1.53	2.62	8.2			
2NS	63-92	Grange Hall	1200	7.26	2.65	39.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100).0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	100).0	100.0	100.0	0.0	0.0	
1"	1	98.6	100).0	100.0	99.3	0.7	0.7	1
3/4"		84.1	100).0	100.0	91.7	7.6	8.3	1
1/2"		46.4	95	.6	100.0	71.5	20.1	28.5	
3/8"	:	28.1	86	.8	100.0	61.2	10.3	38.8	*
#4		5.7	18	.5	98.2	43.1	18.1	56.9	*
#8		2.4	4.	6	87.3	36.0	7.2	64.0	no
#16		2.0	2.	1	71.8	29.5	6.5	70.5	*
#30		1.8	1.	5	47.3	19.7	9.8	80.3	no
#50		1.8	1.	3	21.3	9.4	10.2	90.6	*
#100		1.7	1.:	2	4.7	2.8	6.6	97.2	a 2
LBW		1.2	1.0	0	0.7	1.0	1.9	99.0	1



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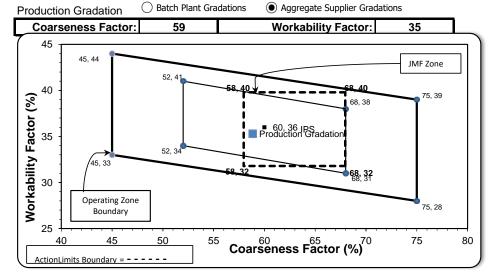
Intial Producti	on Sample (IPS	5)	-
Coars	eness Factor:	62	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.1	0.9	0.9
3/4"	90.5	8.6	9.5
1/2"	69.8	20.7	30.2
3/8"	59.8	10.0	40.2
#4	42.2	17.6	57.8
#8	35.4	6.7	64.6
#16	28.8	6.7	71.2
#30	21.4	7.4	78.6
#50	8.8	12.6	91.2
#100	1.8	7.0	98.2
LBW	0.7	1.0	99.3

Approved By: Mart 1. Ball

PLANT :	#:	P-39					Contractor:		
Sample Date	e:	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1570	9.60	2.62	51.5			
26A	71-47	Presque Isle	230	1.41	2.62	7.5			
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	41.0			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		100.0	100	0.0	100.0	100.0	0.0	0.0	1
1"		95.6	100	0.0	100.0	97.7	2.3	2.3	1
3/4"		79.1	100	0.0	100.0	89.2	8.5	10.8	1
1/2"		43.0	94.	.7	100.0	70.3	19.0	29.7	
3/8"		28.2	85.	.2	100.0	61.9	8.3	38.1	*N
#4		6.2	20.	.8	95.7	44.0	17.9	56.0	*/
#8		2.5	5.8	5.8		35.3	8.7	64.7	nor
#16		2.0	3.4	4	66.9	28.7	6.6	71.3	*9
#30		1.9	2.9	9	50.2	21.8	6.9	78.2	nor
#50		1.8	2.1	7	25.0	11.4	10.4	88.6	*%
#100		1.8	2.		7.5	4.2	7.2	95.8	a 2
LBW		1.6	2.2	2	1.3	1.5	2.7	98.5	



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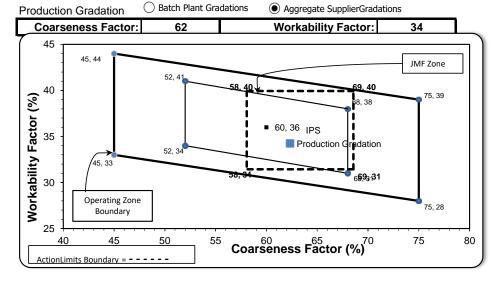
Intial Production Sample (IPS)									
Coars	eness Factor:	63							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	100.0	0.0	0.0						
3/4"	89.8	10.2	10.2						
1/2"	70.7	19.1	29.3						
3/8"	59.6	11.1	40.4						
#4	43.2	16.4	56.8						
#8	35.8	7.4	64.2						
#16	29.2	6.6	70.8						
#30	21.4	7.8	78.6						
#50	9.8	11.6	90.2						
#100	3.7	6.1	96.3						
LBW	1.2	2.5	98.8						

Approved By: Mary 1. Ball

PLANT #	#:	P-O2					Contractor:		
Sample Date	:	5/29/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	5/30/2023	through	6/5/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1720	10.52	2.62	56.4			
26A	71-47	Presque Isle	100	0.61	2.62	3.3			
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		98.6	100	0.0	100.0	99.2	0.8	0.8	
3/4"		84.1	100	0.0	100.0	91.0	8.2	9.0	
1/2"		46.4	95	5.6	100.0	69.6	21.4	30.4	
3/8"	:	28.1	86	5.8	100.0	59.0	10.6	41.0	*1
#4		5.7	18	8.5	96.6	42.8	16.2	57.2	*,
#8		2.4	4.	.6	81.2	34.3	8.5	65.7	no
#16		2.0	2.	.1	66.4	28.0	6.3	72.0	*(
#30		1.8	1.	.5	50.6	21.5	6.5	78.5	no
#50		1.8	1.	.3	25.2	11.2	10.2	88.8	*0
#100		1.7		.2	4.1	2.7	8.6	97.3	a 2
LBW		1.2	1.	.0	0.5	0.9	1.7	99.1	



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Intial Product	ion Sample (IPS	5)	_
Coars	seness Factor:	63	
Worl	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% 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"	95.6	4.4	4.4
1/2"	73.1	22.6	26.9
3/8"	59.3	13.8	40.7
#4	42.8	16.5	57.2
#8	35.7	7.1	64.3
#16	28.9	6.8	71.1
#30	20.7	8.2	79.3
#50	9.9	10.8	90.1
#100	2.1	7.8	97.9
LBW	0.9	1.2	99.1

Approved By: Mart 1. Ball