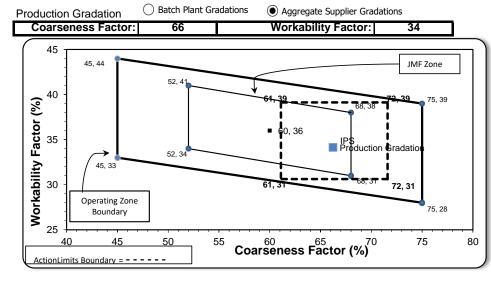
PLANT :	PLANT #: P-101						Contractor:		
Sample Date	e:	11/14/22			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		11/15/2022	through	11/21/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	75-051	Mid Michigan	1200	7.23	2.66	39.1			
		Total Wt	3070	18.67		100.0	< Verify this n	umber is 100%	_
Sieve		CA	IJ	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"		98.7	10	0.0	100.0	99.5	0.5	0.5	1
1"		47.5	10	0.0	100.0	81.7	17.8	18.3	
3/4"		12.4	98	8.5	100.0	69.1	12.6	30.9	1
1/2"		3.0	83	3.2	100.0	61.8	7.3	38.2	]
3/8"		2.0	63	8.7	100.0	56.4	5.4	43.6	*
#4		1.6	17	<b>'</b> .3	98.5	43.6	12.8	56.4	*,
#8		1.4	1.4 4.5		83.1	34.1	9.4	65.9	no
#16		1.4	2	.7	66.3	27.1	7.0	72.9	*
#30		1.3	2	.3	47.5	19.6	7.5	80.4	no
#50		1.2	2	.1	20.7	9.1	10.6	90.9	*(
#100		1.1		.9	4.8	2.8	6.3	97.2	a 2
LBW		0.9	1.	.7	0.8	1.1	1.7	98.9	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., 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.



Initial Producti	Initial Production Sample (IPS)								
Coars	eness Factor:	66							
Work	ability Factor:	35							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	99.6	0.4	0.4						
1"	84.3	15.3	15.7						
3/4"	74.8	9.6	25.2						
1/2"	64.3	10.4	35.7						
3/8"	56.8	7.5	43.2						
#4	43.0	13.8	57.0						
#8	34.9	8.1	65.1						
#16	26.4	8.5	73.6						
#30	19.9	6.5	80.1						
#50	10.4	9.5	89.6						
#100	3.4	7.0	96.6						
LBW	1.2	2.2	98.8						

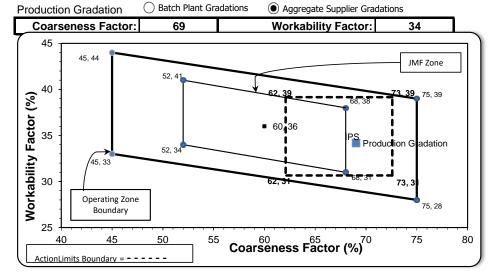
Approved By: Mart 1. Ball

PLANT #: P-102						Contractor:			
Sample Date	:	11/14/22			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		11/15/2022	through	11/21/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5			
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	
Sieve	СА		LI I	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	10	0.0	100.0	100.0	0.0	0.0	
1.5"		100.0	10	0.0	100.0	100.0	0.0	0.0	
1"		66.6	10	0.0	100.0	85.3	14.7	14.7	
3/4"		41.7	10	0.0	100.0	74.4	10.9	25.6	
1/2"		15.7	91	.3	100.0	61.5	13.0	38.6	
3/8"		7.2	73	3.4	100.0	54.6	6.9	45.4	
#4		2.2	18	3.8	98.1	42.0	12.6	58.0	
#8		1.4	6	.0	84.5	34.2	7.8	65.8	n
#16		1.2 3.2		.2	68.0	27.2	6.9	72.8	
#30		1.1 3.2		.2	49.2	20.0	7.3	80.0	n
#50		1.0	2.	.1	25.7	10.7	9.3	89.3	
#100		0.9	0.9 2.0		7.2	3.5	7.2	96.5	a
LBW		0.7	1.	.8	1.4	1.2	2.4	98.8	



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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.



Intial Production Sample (IPS)								
Coars	eness Factor:	67						
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"	85.5	14.5	14.5					
3/4"	73.4	12.1	26.6					
1/2"	61.0	12.4	39.0					
3/8"	56.2	4.8	43.8					
#4	43.1	13.1	56.9					
#8	34.9	8.2	65.1					
#16	29.4	5.5	70.6					
#30	21.6	7.8	78.4					
#50	8.1	13.4	91.9					
#100	#100 2.2		97.8					
LBW	1.4	0.8	98.6					

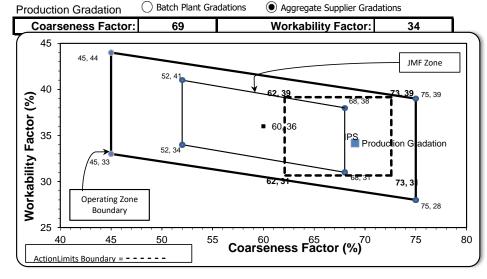
Approved By: Mart 1. Ball

PLANT #:         P-103           Sample Date:         11/14/22						Contractor:				
		11/14/22			Concrete Grade:	P1M, 3500HP				
Dates Test R	epresents:	11/15/2022	through	11/21/2022			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				
CA	58-003	Stoneco	1370	1370 8.16	2.69	43.9				
IA	58-003	Stoneco	550	3.28	2.69	17.6				
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5				
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	mber is 100%	
Sieve	CA		IJ	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"	(	66.6	10	0.0	100.0	85.3	14.7	14.7		
3/4"		41.7	10	0.0	100.0	74.4	10.9	25.6	1	
1/2"		15.7	91	.3	100.0	61.5	13.0	38.6		
3/8"		7.2	73	3.4	100.0	54.6	6.9	45.4	1	
#4		2.2	18	3.8	98.1	42.0	12.6	58.0		
#8		1.4	6	.0	84.5	34.2	7.8	65.8	n	
#16		1.2 3.2		.2	68.0	27.2	6.9	72.8		
#30		1.1 3.2		.2	49.2	20.0	7.3	80.0	r	
#50		1.0	2	.1	25.7	10.7	9.3	89.3		
#100		0.9	2.0		7.2	3.5	7.2	96.5	a	
LBW		0.7	1.	.8	1.4	1.2	2.4	98.8		



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., 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.



Intial Production	on Sample (IPS	5)	_
Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

Approved BY: Mart P. Ball

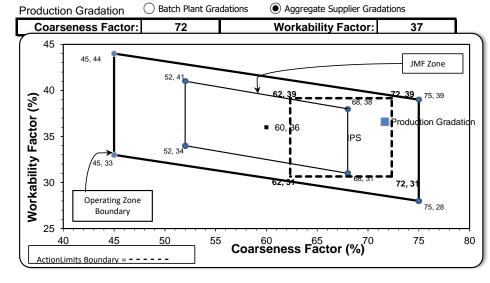
PLANT :	#:	P-14					Contractor:		
Sample Date	:	11/14/22	-		Concrete Grade	: P1M, 3500HP			
Dates Test R	epresents:	11/15/2022	- through	11/21/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			5
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	19-55	Schlegel	1200	7.20	2.67	38.5			Bui
		Total Wt	3120	18.64		100.0	< Verify this n	umber is 100%	REC Finish Fir
Sieve		CA	1/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	<u>Builders R</u> 30701 W. 1
2"	100.0		100	0.0	100.0	100.0	0.0	0.0	Suite 500
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	Farmingtor
1"	(	66.6	100	0.0	100.0	85.3	14.7	14.7	1
3/4"	4	41.7	100	0.0	100.0	74.4	10.9	25.6	1
1/2"		15.7	91	.3	100.0	61.5	13.0	38.6	
3/8"		7.2	73	.4	100.0	54.6	6.9	45.4	*Maximum % Retained must be a
#4		2.2	18	.8	100.0	42.7	11.8	57.3	*Any two adjacent sieves must ec
#8		1.4	6.	0	90.8	36.6	6.1	63.4	nom. max., #100 and #200 sieves.
#16		1.2	3.	2	71.2	28.5	8.1	71.5	*% Retained must be at least 4%
#30		1.1	3.	2	48.1	19.5	8.9	80.5	nom. max., #100 and #200 sieves.
#50		1.0	2.	1	16.9	7.3	12.2	92.7	*% Retained must be at least 8%
#100		0.9	2.		3.2	2.0	5.3	98.0	a 2" max. size (nom. Max. 1.5") ag
LBW		0.7	1.	8	0.3	0.7	1.2	99.3	J



Redi-Mix

10 Mile Rd. on Hills, MI 48336

above the 3/8" sieve. equal 10% except max., es. % for each sieve except max., es. % for the 1" sieve when aggregate is used.



Intial Production Sample (IPS)								
Coars	eness Factor:	67						
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"	85.5	14.5	14.5					
3/4"	73.4	12.1	26.6					
1/2"	61.0	12.4	39.0					
3/8"	56.2	4.8	43.8					
#4	43.1	13.1	56.9					
#8	34.9	8.2	65.1					
#16	29.4	5.5	70.6					
#30	21.6	7.8	78.4					
#50	8.1	13.4	91.9					
#100	#100 2.2		97.8					
LBW	1.4	0.8	98.6					

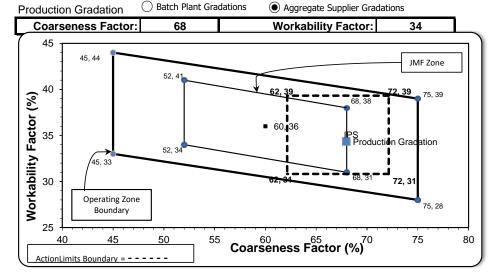
Approved By: Mary 1. Ball

PLANT #:         P-12           Sample Date:         11/14/22           Dates Test Represents:         11/15/2022						Contractor:				
		11/14/22			Concrete Grade:	P1M, 3500HP				
		11/15/2022	through	11/21/2022			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				
CA	71-47	Presque Isle	1020	6.24	2.62	33.2				
IA	71-47	Presque Isle	800	4.89	2.62	26.1				
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7				
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%		
Sieve		CA	14	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0		
1.5"		00.0	100	100	0.0	100.0	100.0	0.0	0.0	1
1"	ł	50.9	100	0.0	100.0	83.7	16.3	16.3	1	
3/4"		18.9	97	.3	100.0	72.4	11.3	27.6	1	
1/2"		5.9	76	.2	100.0	62.5	9.8	37.5		
3/8"		4.7	50	.3	100.0	55.4	7.1	44.6		
#4		2.8	11	.0	96.9	43.3	12.1	56.7		
#8		2.2	4.	0	80.0	34.3	8.9	65.7	no	
#16		2.1	2.	5	64.7	27.7	6.7	72.3	,	
#30		2.1	2.	1	50.0	21.6	6.1	78.4	no	
#50		2.0	1.	9	27.1	12.2	9.4	87.8	٩	
#100		1.9	1.		6.0	3.5	8.7	96.5	а	
LBW		1.6	1.	4	0.8	1.2	2.3	98.8	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., 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.



Intial Production	on Sample (IPS	)	_
Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.0	9.8	26.0
1/2"	63.7	10.3	36.3
3/8"	56.4	7.3	43.6
#4	43.0	13.4	57.0
#8	35.1	7.9	64.9
#16	29.0	6.1	71.0
#30	20.9	8.0	79.1
#50	8.1	12.8	91.9
#100	1.6	6.5	98.4
LBW	0.9	0.8	99.1

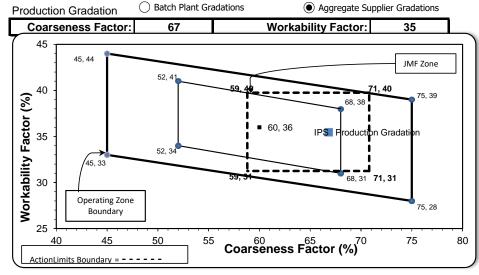
Approved By: Mart 1. Ball

PLANT #:		11					Contractor:			
Sample Date	:	11/14/22 Concrete Grade: P1M, 3500HP								
Dates Test R	epresents:	11/15/2022	through	11/21/2022			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific	%				
Agg. Class	110#	Source	Weight (33D)	п	Gravity	Contribution				
CA	71-47	Presque Isle	920	5.63	2.62	30.0				
IA	71-47	Presque Isle	900	5.50	2.62	29.3				
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7				
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%		
Sieve	eve CA		I/	A .	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		
2"	1	00.0	100	).0	100.0	100.0	0.0	0.0	1	
1.5"	100.0	00.0	100	100	).0	100.0	100.0	0.0	0.0	1
1"	ļ	50.9	100	).0	100.0	85.3	14.7	14.7	1	
3/4"		18.9	97	.3	100.0	74.9	10.4	25.1	1	
1/2"		5.9	76	.2	100.0	64.8	10.1	35.2	1	
3/8"		4.7	50	.3	100.0	56.9	8.0	43.1	*	
#4		2.8	11	.0	95.5	42.9	13.9	57.1	*/	
#8		2.2	4.	0	82.6	35.5	7.5	64.5	nor	
#16		2.1	2.	5	66.9	28.6	6.9	71.4	*9	
#30		2.1	2.	1	47.7	20.7	7.9	79.3	nor	
#50		2.0	1.	9	23.2	10.6	10.1	89.4	*%	
#100		1.9	1.	8	6.6	3.8	6.8	96.2	a 2	
LBW		1.6	1.	4	1.4	1.5	2.3	98.5	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 Producti	Intial Production Sample (IPS)								
Coars	eness Factor:	65							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	99.0	0.6	0.6						
1"	84.0	15.3	16.0						
3/4"	73.5	10.5	26.5						
1/2"	65.2	8.2	34.8						
3/8"	58.2	7.1	41.8						
#4	44.1	14.1	55.9						
#8	35.5	8.6	64.5						
#16	29.1	6.4	70.9						
#30	21.9	7.3	78.1						
#50	9.6	12.2	90.4						
#100	¥100 2.6		97.4						
LBW	1.0	1.6	99.0						

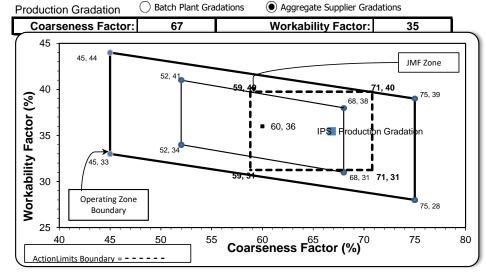
Approved By: Mary P. Ball

PLANT #:		P-32					Contractor:	
Sample Date	:	11/14/22			Concrete Grade:	P1M, 3500HP		
Dates Test R	epresents:	11/15/2022	through	11/21/2022			MDOT No.:	
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution		
CA	71-47	Presque Isle	920	5.63	2.62	30.0		
IA	71-47	Presque Isle	900	5.50	2.62	29.3		
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7		
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%
Sieve		CA	I/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	1	00.0	10	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"	:	50.9	10	0.0	100.0	85.3	14.7	14.7
3/4"		18.9	97	7.3	100.0	74.9	10.4	25.1
1/2"		5.9	76	6.2	100.0	64.8	10.1	35.2
3/8"		4.7	50	).3	100.0	56.9	8.0	43.1
#4		2.8	11	.0	95.5	42.9	13.9	57.1
#8		2.2	4.	.0	82.6	35.5	7.5	64.5
#16		2.1	2.5		66.9	28.6	6.9	71.4
#30		2.1	2.	.1	47.7	20.7	7.9	79.3
#50		2.0	1.	.9	23.2	10.6	10.1	89.4
#100		1.9	1.	.8	6.6	3.8	6.8	96.2
LBW		1.6	1.	.4	1.4	1.5	2.3	98.5



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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.



Intial Production Sample (IPS)								
Coars	eness Factor:	65						
Work	ability Factor:	36						
Sieve	Cumulative	%	Cumulative					
Sieve	% Passing	Retained	% Retained					
2"	100.0	0.0	0.0					
1.5"	99.0	0.6	0.6					
1"	84.0	15.3	16.0					
3/4"	73.5	10.5	26.5					
1/2"	65.2	8.2	34.8					
3/8"	58.2	7.1	41.8					
#4	44.1	14.1	55.9					
#8	35.5	8.6	64.5					
#16	29.1	6.4	70.9					
#30	21.9	7.3	78.1					
#50	9.6	12.2	90.4					
#100	2.6	7.1	97.4					
LBW	1.0	1.6	99.0					

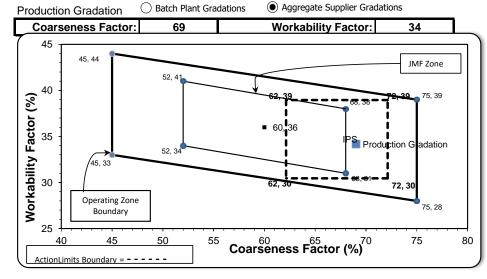
Approved By: Mart 1. Ball

PLANT #: P-35						Contractor:			
Sample Date	e:	11/14/22			Concrete Grade:	P1M, 3500HP			
Dates Test F	Represents:	11/15/2022	through	11/21/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5			
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	_
Sieve		CA	ľ	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1"		66.6	10	0.0	100.0	85.3	14.7	14.7	
3/4"		41.7	10	0.0	100.0	74.4	10.9	25.6	
1/2"		15.7	91	.3	100.0	61.5	13.0	38.6	]
3/8"		7.2	73	3.4	100.0	54.6	6.9	45.4	*
#4		2.2	18	3.8	98.1	42.0	12.6	58.0	*,
#8		1.4	6	.0	84.5	34.2	7.8	65.8	no
#16		1.2	3	.2	68.0	27.2	6.9	72.8	*
#30		1.1	3	.2	49.2	20.0	7.3	80.0	no
#50		1.0	2	.1	25.7	10.7	9.3	89.3	*
#100		0.9	2	.0	7.2	3.5	7.2	96.5	a 2
LBW		0.7	1	.8	1.4	1.2	2.4	98.8	1



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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 12" max. size (nom. Max. 1.5") aggregate is used.



Intial Production	on Sample (IPS	5)	-
Coars	eness Factor:	67	
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"	86.9	13.1	13.1
3/4"	76.1	10.8	23.9
1/2"	63.7	12.4	36.3
3/8"	56.2	7.5	43.8
#4	43.2	13.0	56.8
#8	34.7	8.5	65.3
#16	27.5	7.2	72.5
#30	20.6	7.0	79.4
#50	9.0	11.6	91.0
#100	2.1	6.9	97.9
LBW	1.0	1.1	99.0

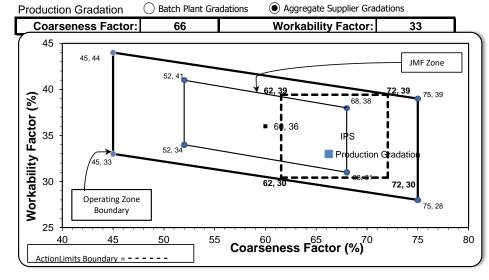
Approved By: Mart 1. Ball

PLANT #	<b>#:</b>	P-36					Contractor:		
Sample Date	:	11/14/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	11/15/2022	through	11/21/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
СА	71-47	Presque Isle	950	5.81	2.62	30.9			
IA	71-47	Presque Isle	920	5.63	2.62	30.0			
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1			
1		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	LI I	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	1
1"		50.9	10	0.0	100.0	84.8	15.2	15.2	
3/4"		18.9	97	7.3	100.0	74.1	10.7	25.9	1
1/2"		5.9	76	6.2	100.0	63.7	10.3	36.3	
3/8"		4.7	50	).3	100.0	55.6	8.1	44.4	*1
#4		2.8	11	.0	96.8	42.0	13.6	58.0	*/
#8		2.2 4.		.0	79.6	33.0	9.0	67.0	noi
#16		2.1	2	.5	68.0	28.0	5.0	72.0	*0
#30		2.1	2	.1	52.0	21.6	6.4	78.4	noi
#50		2.0	1.	.9	22.3	9.9	11.7	90.1	*0
#100		1.9	1	.8	3.4	2.5	7.4	97.5	a 2
LBW		1.6	1.	.4	0.3	1.0	1.4	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:	67						
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"	85.0	15.0	15.0					
3/4"	72.1	12.9	27.9					
1/2"	64.5	7.6	35.5					
3/8"	56.5	8.0	43.5					
#4	42.7	13.8	57.3					
#8	34.9	7.8	65.1					
#16	29.0	5.9	71.0					
#30	21.0	8.0	79.0					
#50	8.2	12.8	91.8					
#100	1.6	6.5	98.4					
LBW	0.7	0.9	99.3					
		•						

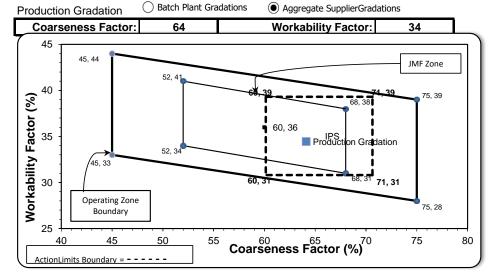
Approved By: Mart 1. Ball

PLANT :	#:	P-39					Contractor:		
Sample Date	):	11/14/22			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	11/15/2022	through	11/21/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1020	6.24	2.62	33.2			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	
Sieve		CA	IJ	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"		98.7	100	0.0	100.0	99.6	0.4	0.4	
1"		47.5	100	0.0	100.0	82.6	17.0	17.4	
3/4"		12.4	98	3.5	100.0	70.5	12.1	29.5	
1/2"		3.0	83	3.2	100.0	63.4	7.1	36.6	
3/8"		2.0	63	3.7	100.0	58.0	5.4	42.0	
#4		1.6	17	7.3	96.4	44.3	13.7	55.7	
#8		1.4	4.	.5	80.6	34.5	9.8	65.5	n
#16		1.4	2.	.7	65.7	27.9	6.5	72.1	
#30		1.3	2.	.3	48.1	20.6	7.3	79.4	n
#50		1.2	2.	.1	23.7	10.6	10.0	89.4	1
#100		1.1		.9	7.2	3.8	6.8	96.2	а
LBW		0.9	1.	.7	0.9	1.1	2.7	98.9	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 Product	Intial Production Sample (IPS)								
Coars	seness Factor:	65							
Worl	ability Factor:	35							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	99.6	0.4	0.4						
1"	83.9	15.7	16.1						
3/4"	74.1	9.8	25.9						
1/2"	64.3	9.7	35.7						
3/8"	57.5	6.8	42.5						
#4	44.5	13.1	55.5						
#8	35.1	9.4	64.9						
#16	27.9	7.2	72.1						
#30	21.7	6.2	78.3						
#50	12.6	9.1	87.4						
#100	3.5	9.1	96.5						
LBW	1.2	2.4	98.8						
8	•								

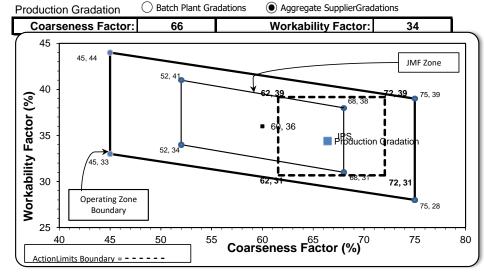
Approved By: Mart P. Ball

PLANT #	<b>#:</b>	<b>P-O2</b>					Contractor:	
Sample Date	:	11/14/22			Concrete Grade:	P1M, 3500HP		
Dates Test R	epresents:	11/15/2022	through	11/21/2022			MDOT No.:	
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution		
CA	71-47	Presque Isle	950	5.81	2.62	30.9		
IA	71-47	Presque Isle	870	5.32	2.62	28.3		
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7		
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%
Sieve		CA	IJ	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	1	00.0	10	0.0	100.0	100.0	0.0	0.0
1"	Į	50.9	10	0.0	100.0	84.8	15.2	15.2
3/4"		18.9	97	7.3	100.0	74.1	10.7	25.9
1/2"		5.9	76	6.2	100.0	64.1	10.0	35.9
3/8"		4.7	50	).3	100.0	56.4	7.7	43.6
#4		2.8	11	.0	96.9	43.4	13.0	56.6
#8		2.2	4	.0	80.0	34.4	9.1	65.6
#16		2.1	2	.5	64.7	27.7	6.7	72.3
#30		2.1	2	.1	50.0	21.6	6.1	78.4
#50		2.0	1.	.9	27.1	12.2	9.4	87.8
#100		1.9	1.	.8	6.0	3.5	8.7	96.5
LBW		1.6	1.	.4	0.8	1.2	2.3	98.8



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Intial Production Sample (IPS)								
Coars	eness Factor:	67						
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"	85.0	15.0	15.0					
3/4"	72.3	12.7	27.7					
1/2"	64.5	7.8	35.5					
3/8"	56.5	8.0	43.5					
#4	42.7	13.8	57.3					
#8	34.9	7.8	65.1					
#16	29.0	5.9	71.0					
#30	21.0	8.0	79.0					
#50	8.2	12.8	91.8					
#100	1.6	6.5	98.4					
LBW	0.7	0.9	99.3					

Approved By: Mart 1. Ball